COATING SPECIFICATION GUIDE 2020

MAC warranted coating specifications for commonly encountered building substrata.

Prior to specification or application of MAC products, always consult our lastest documentation by scanning the QR code or visiting our website at:
www.macrender.com.au

MAC COATING SPECIFICATIONS

MAC warranted coating specifications for commonly encountered building substrata.

AAC (AERATED CONCRETE)

EXPANDED POLYSTYRENE (EPS) - PRECOATED SYSTEMS

EXPANDED POLYSTYRENE (EPS) - RAW SYSTEMS

FIBRE CEMENT SHEET CONSTRUCTIONS

MAGNESIUM OXIDE BOARD (MGO)

MASONRY - BRICKS, BLOCKS & CONCRETE

MISCELLANEOUS SUBSTRATA

PLASTERBOARD

PVC CONSTRUCTIONS

STRUCTURAL INSULATED PANELS SYSTEMS (SIPS)

AAC / PANELS

Render and textured finish to aerated concrete (AAC) panels.

Applies to: Hebel® Power Panels, Loxo Panels, Ecol Panels, Stoddart Staacwall®.

Date modified: 22/08/2019 4:01:45 pm

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.

AAC / Panels continued...

Substrate Preparation / Specific	To prevent poor hydration of base coat render in hot/dry conditions, walls may be slightly dampened to reduce excessive suction. Ensure moisture content of less than 10% wood moisture equivalent (WME). Fill any holes and repair panel imperfections with suitable AAC patching compound ensuring base is suitable for application of a thin base render. Allow repaired sections to dry fully before rendering. If panels are misaligned, make good by removing high spots with an AAC levelling plane or sanding float.	
Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 45%. Consult MAC to seek confirmation of colour suitability.	
Base Coat - FR Reinforced Macrender® Coarse FR + Alkali-resistant FG tape 200 mm (165 gsm min.)	Refer to product specific data sheet prior to application of base coat. Apply a base coat of Macrender® Coarse FR with a trowel at a thickness of approximately 2-4 mm. At all panel joints, embed a 200 mm strip of FG reinforcing tape into the wet render, just below the surface. All window and door openings must have corners similarly reinforced with diagonal fibreglass strips (300 mm x 200 mm). Screed or level sufficiently to allow over-coating with a second skim render if required.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.*
Base Coat - FR Reinforced Macrender® Coarse FR	Refer to product specific data sheet prior to application of base coat. Apply a base coat of Macrender® Coarse FR with a trowel at a thickness of approximately 2-4 mm. Float to a finish suitable for the application of the selected top coat.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.*

AAC / Panels continued...

Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6 m2 per litre.*
Textured Finish Mactexture Trowel-on or Roll-on textured finish	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre for trowel-on textures.* *Approx. 20-40 m2 per 15 litre for roll-on textures.*
Membrane - Sealer Application MAC Satin or Satin Flex	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin/Satin Flex acrylic membrane in selected colour. Cutting-in prior to coating application may result in “picture framing”. Always cut in during main application, maintaining a “wet-edge” at all times. Two (2) coats required. 7 year warranty applicable for Satin with 10 year warranty applicable for Satin Flex.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

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MAC will not warrant job defects caused as a result of but not limited to, structural/substrate movement or entrapped moisture. Building movement and structural dynamics is beyond the scope and control of MAC. Accordingly, stresses and joint/substrate movement cannot be contained by the application of the decorative finished detailed in the above specification. Fibreglass mesh reinforcing will provide little to no benefit if adhered directly to, or embedded hard against the substrate. Always ensure reinforcing mesh is embedded in the outer half of the basecoat where the coating face can be better reinforced.

In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

AAC / ROUGHCAST

Render and roughcast finish to aerated concrete (AAC) panels.

Applies to: Hebel® Power Panels, Loxo Panels, Ecol Panels, Stoddart Staacwall®.

Date modified: 18/09/2020 8:44:25 am

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.

AAC / ROUGHCAST continued...

Substrate Preparation / Specific	To prevent poor hydration of base coat render in hot/dry conditions, walls may be slightly dampened to reduce excessive suction. Ensure moisture content of less than 10% wood moisture equivalent (WME). Fill any holes and repair panel imperfections with suitable AAC patching compound ensuring base is suitable for application of a thin base render. Allow repaired sections to dry fully before rendering. If panels are misaligned, make good by removing high spots with an AAC levelling plane or sanding float.	
Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 45%. Consult MAC to seek confirmation of colour suitability.	
Base Coat - FR Reinforced Macrender® Coarse FR + Alkali-resistant FG tape 200 mm (165 gsm min.)	Refer to product specific data sheet prior to application of base coat. Apply a base coat of Macrender® Coarse FR with a trowel at a thickness of approximately 2-4 mm. At all panel joints, embed a 200 mm strip of FG reinforcing tape into the wet render, just below the surface. All window and door openings must have corners similarly reinforced with diagonal fibreglass strips (300 mm x 200 mm). Screed or level sufficiently to allow over-coating with a second skim render if required.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.*

AAC / ROUGHCAST continued...

Base Coat Macrender® (Macbond:water ratio 1:4) only when applied over HBS or Coarse FR.	Refer to product data sheet prior to application. When applying over a basecoat of HBS or Coarse FR, mix using a Macbond:water ratio of 1:15. Apply a second coat of Macrender® ensuring a minimum 5 mm combined render thickness has been achieved. Refer to Manufacturer's technical manual for actual specified render thickness. For roughcast finish, apply a thin coat of Macrender® at approximately 2-3 mm in thickness. Whilst stil wet, flick Macrender® mixed with selected aggregate such as 1/4" minus onto the surface to achieve the desired surface finish. This can be done using a coarse brush or tyrolean splatter gun. Control and movement joints must be placed as per manufacturer's technical manual and must not be bridged by the render or texture coating system. Allow rendered surface to cure for a minimum of 4 days prior to painting.	**Coverage:** *Approx 1-2 m2 at 3 mm thickness.*
Membrane - Sealer Application MAC Satin or Satin Flex	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin/Satin Flex acrylic membrane in selected colour. Cutting-in prior to coating application may result in "picture framing". Always cut in during main application, maintaining a "wet-edge" at all times. Two (2) coats required. 7 year warranty applicable for Satin with 10 year warranty applicable for Satin Flex.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

AAC / ROUGHCAST continued...

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Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

AAC / SUEDE FINISH

Render and Suede finish to aerated concrete (AAC) panels.

Applies to: Hebel® Power Panels, Loxo Panels, Ecol Panels, Stoddart Staacwall®.

Date modified: 18/09/2020 8:43:40 am

Warranty	7 years from time of application. When applied in accordance with the above specification, MAC will provide a 7 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.

AAC / Suede Finish continued...

Substrate Preparation / Specific	To prevent poor hydration of base coat render in hot/dry conditions, walls may be slightly dampened to reduce excessive suction. Ensure moisture content of less than 10% wood moisture equivalent (WME). Fill any holes and repair panel imperfections with suitable AAC patching compound ensuring base is suitable for application of a thin base render. Allow repaired sections to dry fully before rendering. If panels are misaligned, make good by removing high spots with an AAC levelling plane or sanding float.	
Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
Base Coat - FR Reinforced Macrender® Coarse FR + FG Mesh 165 gsm	Refer to product data sheet prior to use. Mechanically mix Macrender® Coarse FR powder with approximately 3 - 4 litres of potable water. Allow to stand for 2 minutes then re-blend prior to application. Apply Macrender® Coarse FR with a trowel or angled 6 mm notched trowel. Overlay with fibreglass mesh and work lightly into the wet render ensuring surface is fully covered. Ensure mesh is sitting near the render surface, not close to the substrate surface. Overlap fibreglass mesh junctures by 100 mm minimum. Ensure render surface finish is suitable for the application of a second coat of render. Corners at openings including window and door frames must be diagonally reinforced with 400 mm x 200 mm fibreglass bandages embedded in the first Macrender® Coarse FR coat. This is in addition to the full fibreglass mesh embedded in the first render coat.	**Coverage:** *Approx 3 m2 per 20 kg bag at 3 mm thickmess.*
Base Coat - FR Reinforced Macrender® Coarse FR	Refer to product specific data sheet prior to application of base coat. Apply a base coat of Macrender® Coarse FR with a trowel at a thickness of approximately 2-4 mm. Float to a finish suitable for the application of the selected top coat.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.*

AAC / Suede Finish continued...

Textured Finish Suede Fino	Suede is formulated to provide a thin, smooth trowel finish. For this reason, the surface should be well prepared to accept a 1 mm finishing coat. Suede is best applied in two (2) very thin coats. The first coat is applied to the rendered surface with a steel trowel at a thickness of approximately 0.6 mm. Spread to achieve a uniform, smooth coating trying not to leave excessive trowel marks. Allow the material to harden sufficiently so that it is no longer sticky to the touch. Apply the second coat, wet-on-green, or wet-on-dry, at around 0.6 mm in thickness and trowel as smooth as possible. The material should then be allowed to harden sufficiently (not longer sticky to touch) so that it feels slippery under the trowel. If the material still feels grippy under the trowel, it must be left longer prior to finishing. At this point, it can be ***lightly*** polished flat with a wet steel trowel. Water may be sparingly misted onto the surface to aid the finishing process. Caution should be taken to avoid over-working or over-watering of drying or sticky material. Hard pressure should not be applied until hard set. Overworking and application of excessive water can lead to surface peeling/bubbling during the application process. Final polishing with a steel trowel can generally be completed for some time after hard set has been attained. Total thickness of the finished Suede coating should be approximately 1.5 mm. Avoid application in hot windy conditions as accelerated drying may result in shrinkage cracking, lack of proper mechanical strength development and difficulty in finishing. Moisten porous surfaces with clean water prior to application if rapid set is occurring. Note: As Suede FC is applied and finished by hand, undulations in the surface may be seen during times of extreme glancing-light. In some situations, ultra fine hair cracks may appear (usually only noticeable for a brief period whilst damp). These effects are considered part of the natural character of the product, and are not deemed a product or application fault	**Coverage:** *Approx 10-15 m2 per 13 kg bag*
Membrane - Sealer Application Aquashield Clearcote	Refer to product data sheet prior to application. With roller or suitable spray equipment, apply two coats of MAC Aquashield. Cutting-in prior to coating application may result in “picture framing”. Always cut in during main application, maintaining a “wet-edge” at all times. Roll of excess material to minimise risk of surface blemishes in finished coating. Two (2) coats required. 7 year warranty applicable.	**Coverage:** *Approximately 4-8 m2 per litre.*

AAC / Suede Finish continued...

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EPS PRECOAT / ROUGHCAST RENDER

MAC specification for roughcast render finish to certified precoated EPS (Expanded Polystyrene) cladding system.

Applies to: Certified precoated lightweight EPS cladding systems.

Date modified: 18/09/2020 9:00:28 am

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.

EPS PRECOAT / ROUGHCAST Render continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 45%. Consult MAC to seek confirmation of colour suitability.	
Base Coat - FR Reinforced Macrender HBS + 200 mm alkali-resistant fibreglass reinforcing tape across all panel joints. 200 mm x 400 mm fibreglass bandages diagonally across corners of all protrusions including door and window frames.	Refer to product data sheet prior to application. Clean surface thoroughly, ensuring all contaminants are removed from the surface prior to rendering. Mix Macrender® HBS powder with approximately 3 - 4 litres of potable water or as directed in relevant product data sheet. Apply Macrender® HBS to the panel at a thickness of approximately 2 - 3 mm, embedding 200 mm (ARFG) alkali resistant fibreglass reinforcing mesh into the wet material across all panel joints. Apply diagonal bandages (200 mm x 400 mm) across corners of all protrusions including door and window frames. Some contractors prefer to use an angled 6 mm notched trowel to better gauge the application thickness. Ensure mesh is embedded nearer the face of the render and not the substrate surface itself. Do not press the mesh hard against the substrate surface. Once embedded, trowel over the mesh, ensuring it is fully embedded. The use of self adhesive reinforcing mesh is not acceptable. Try to keep taped joints as flush with the surface as possible to reduce the risk of ridges along the joints in the finished coating.	**Coverage:** *Approx. 4 m2 at 3 mm thickness.*

EPS PRECOAT / ROUGHCAST Render continued...

Base Coat Macrender HBS + selected aggregate	Apply a second coat of Macrender® HBS ensuring a minimum 5 mm combined render thickness has been achieved. Refer to Manufacturer's technical manual for actual specified render thickness. For roughcast finish, apply a thin coat of HBS at approximately 2-3 mm in thickness. Whilst stil wet, flick HBS mixed with selected aggregate such as 1/4" minus onto the surface to achieve the desired surface finish. This can be done using a coarse brush or tyrolean splatter gun. Control and movement joints must be placed as per EPS manufacturer's technical manual and must not be bridged by the render or texture coating system. Allow rendered surface to cure for a minimum of 4 days prior to painting.	**Coverage:** *Approx 1-2 m2 at 3 mm thickness.*
Membrane - Sealer Application MAC Satin Flex 100% acrylic membrane	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin Flex 100% acrylic membrane in selected colour. Cutting-in prior to coating application may result in "picture framing". Always cut in just ahead of or during main application, maintaining a "wet-edge" at all times. Two (2) coats required.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

EPS PRECOAT / ROUGHCAST Render continued...

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Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

EPS-MASTERWALL® PRECOAT / RENDERED FINISH

MAC specification for coating the accredited Masterwall® precoated EPS (Expanded Polystyrene) cladding system.

Applies to: Masterwall® precoated lightweight EPS cladding system.

Date modified: 18/09/2020 9:00:47 am

Warranty

7 or 10 years from time of application. See notes.

When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement.

See warranty for details.

Substrate Preparation / General

Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity.

All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes.

All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding.

Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.

EPS-MASTERWALL® PRECOAT / Rendered Finish continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 45%. Consult MAC to seek confirmation of colour suitability.
Trims & Angles Macrender® HBS	For install of all external angles, trims and expansion trims. All trims must be non-corrosive for durabilty in exterior conditions. Refer to product data sheet prior to use. Trowel Macrender® HBS onto panel and embed aluminium/fibreglass combination angles into wet material. Skim over ensuring mesh is no longer visible. All trims must be embedded and meshed into into the wall by minimum of 100 mm. Allow to dry thoroughly prior to application of base render.

EPS-MASTERWALL® PRECOAT / Rendered Finish continued...

Base Coat - FR Reinforced Macrender HBS + 200 mm alkali-resistant fibreglass reinforcing tape across all panel joints. 200 mm x 400 mm fibreglass bandages diagonally across corners of all protrusions including door and window frames.	Refer to product data sheet prior to application. Clean surface thoroughly, ensuring all contaminants are removed from the surface prior to rendering. Mix Macrender® HBS powder with approximately 3 - 4 litres of potable water or as directed in relevant product data sheet. Apply Macrender® HBS to the panel at a thickness of approximately 2 - 3 mm, embedding 200 mm (ARFG) alkali resistant fibreglass reinforcing mesh into the wet material across all panel joints. Apply diagonal bandages (200 mm x 400 mm) across corners of all protrusions including door and window frames. Some contractors prefer to use an angled 6 mm notched trowel to better gauge the application thickness. Ensure mesh is embedded nearer the face of the render and not the substrate surface itself. Do not press the mesh hard against the substrate surface. Once embedded, trowel over the mesh, ensuring it is fully embedded. The use of self adhesive reinforcing mesh is not acceptable. Try to keep taped joints as flush with the surface as possible to reduce the risk of ridges along the joints in the finished coating.	**Coverage:** *Approx. 4 m2 at 3 mm thickness.*
Base Coat Macrender HBS	Apply a second coat of Macrender® HBS and float to a suitable finsh. Refer to Manufacturer's technical manual for actual specified render thickness. Second render coat should only be a skim coat up to 3 mm in thickness. All build up, if required, should be completed in the initial render coat. In fibreglass mesh reinforced systems, an additional mesh layer is required in second coat builds exceeding 3 mm. This will ensure that the mesh reinforcment is positioned near the surface of the render system. Control and movement joints must be placed as per substrate manufacturer's technical manual and must not be bridged by the render or texture coating system. Allow rendered surface to cure for a minimum of 4 days prior to priming or texture coating.	**Coverage:** *Approx 4 m2 at 3 mm thickness.*
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6 m2 per litre.*

EPS-MASTERWALL® PRECOAT / Rendered Finish continued...

Textured Finish Mactexture Trowel-on or Roll-on textured finish	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre for trowel-on textures.* *Approx. 20-40 m2 per 15 litre for roll-on textures.*
Membrane - Sealer Application MAC Satin Flex 100% acrylic membrane	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin Flex 100% acrylic membrane in selected colour. Cutting-in prior to coating application may result in “picture framing”. Always cut in just ahead of or during main application, maintaining a “wet-edge” at all times. Two (2) coats required.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*
Notes	Many EPS cladding systems carry an accreditation deeming them suitable for use for specific construction classes throughout Australia. Whilst this particular specification is approved by some EPS cladding system manufacturers, it does not in itself constitute an approved system. Please consult the relevant system manufacturer (noted above) and use this specification only where approved explicitly by them, in strict accordance with their proprietary installation manuals. Contact MAC for further details on 03 9794 7004.	

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MAC will not warrant job defects caused as a result of but not limited to, structural/substrate movement or entrapped moisture. Building movement and structural dynamics is beyond the scope and control of MAC. Accordingly, stresses and joint/substrate movement cannot be contained by the application of the decorative finished detailed in the above specification. Fibreglass mesh reinforcing will provide little to no benefit if adhered directly to, or embedded hard against the substrate. Always ensure reinforcing mesh is embedded in the outer half of the basecoat where the coating face can be better reinforced.

In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

EPS-RENDEX PRECOAT / RENDERED FINISH

MAC specification for coating the accredited Rendex® precoated EPS (Expanded Polystyrene) cladding system.

Applies to: Rendex® precoated lightweight EPS cladding system.

Date modified: 18/09/2020 9:00:59 am

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.

EPS-RENDEX PRECOAT / Rendered Finish continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 45%. Consult MAC to seek confirmation of colour suitability.
Trims & Angles Macrender® HBS	For install of all external angles, trims and expansion trims. All trims must be non-corrosive for durabilty in exterior conditions. Refer to product data sheet prior to use. Trowel Macrender® HBS onto panel and embed aluminium/fibreglass combination angles into wet material. Skim over ensuring mesh is no longer visible. All trims must be embedded and meshed into into the wall by minimum of 100 mm. Allow to dry thoroughly prior to application of base render.

EPS-RENDEX PRECOAT / Rendered Finish continued...

Base Coat - FR Reinforced Macrender HBS + 200 mm alkali-resistant fibreglass reinforcing tape across all panel joints. 200 mm x 400 mm fibreglass bandages diagonally across corners of all protrusions including door and window frames.	Refer to product data sheet prior to application. Clean surface thoroughly, ensuring all contaminants are removed from the surface prior to rendering. Mix Macrender® HBS powder with approximately 3 - 4 litres of potable water or as directed in relevant product data sheet. Apply Macrender® HBS to the panel at a thickness of approximately 2 - 3 mm, embedding 200 mm (ARFG) alkali resistant fibreglass reinforcing mesh into the wet material across all panel joints. Apply diagonal bandages (200 mm x 400 mm) across corners of all protrusions including door and window frames. Some contractors prefer to use an angled 6 mm notched trowel to better gauge the application thickness. Ensure mesh is embedded nearer the face of the render and not the substrate surface itself. Do not press the mesh hard against the substrate surface. Once embedded, trowel over the mesh, ensuring it is fully embedded. The use of self adhesive reinforcing mesh is not acceptable. Try to keep taped joints as flush with the surface as possible to reduce the risk of ridges along the joints in the finished coating.	**Coverage:** *Approx. 4 m2 at 3 mm thickness.*
Base Coat Macrender HBS	Apply a second coat of Macrender® HBS and float to a suitable finsh. Refer to Manufacturer's technical manual for actual specified render thickness. Second render coat should only be a skim coat up to 3 mm in thickness. All build up, if required, should be completed in the initial render coat. In fibreglass mesh reinforced systems, an additional mesh layer is required in second coat builds exceeding 3 mm. This will ensure that the mesh reinforcment is positioned near the surface of the render system. Control and movement joints must be placed as per substrate manufacturer's technical manual and must not be bridged by the render or texture coating system. Allow rendered surface to cure for a minimum of 4 days prior to priming or texture coating.	**Coverage:** *Approx 4 m2 at 3 mm thickness.*
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6 m2 per litre.*

EPS-RENDEX PRECOAT / Rendered Finish continued...

Textured Finish Mactexture Trowel-on or Roll-on textured finish	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre for trowel-on textures.* *Approx. 20-40 m2 per 15 litre for roll-on textures.*
Membrane - Sealer Application MAC Satin Flex 100% acrylic membrane	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin Flex 100% acrylic membrane in selected colour. Cutting-in prior to coating application may result in “picture framing”. Always cut in just ahead of or during main application, maintaining a “wet-edge” at all times. Two (2) coats required.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

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In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

FOCAL POINT RENDAPANEL® / RENDERED FINISH

MAC specification for coating the Focal Point Rendapanel® lightweight thermal cladding system.

Applies to: Focal Point Rendapanel® precoated lightweight EPS cladding system.

Date modified: 18/09/2020 10:05:50 am

Warranty

7 or 10 years from time of application. See notes.

When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement.

See warranty for details.

Substrate Preparation / General

Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity.

All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes.

All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding.

Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.

Focal Point Rendapanel® / Rendered Finish continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 45%. Consult MAC to seek confirmation of colour suitability.
Trims & Angles Macrender® HBS	For install of all external angles, trims and expansion trims. All trims must be non-corrosive for durabilty in exterior conditions. Refer to product data sheet prior to use. Trowel Macrender® HBS onto panel and embed aluminium/fibreglass combination angles into wet material. Skim over ensuring mesh is no longer visible. All trims must be embedded and meshed into into the wall by minimum of 100 mm. Allow to dry thoroughly prior to application of base render.

Focal Point Rendapanel® / Rendered Finish continued...

Base Coat - FR Reinforced Macrender HBS + 200 mm alkali-resistant fibreglass reinforcing tape across all panel joints. 200 mm x 400 mm fibreglass bandages diagonally across corners of all protrusions including door and window frames.	Refer to product data sheet prior to application. Clean surface thoroughly, ensuring all contaminants are removed from the surface prior to rendering. Mix Macrender® HBS powder with approximately 3 - 4 litres of potable water or as directed in relevant product data sheet. Apply Macrender® HBS to the panel at a thickness of approximately 2 - 3 mm, embedding 200 mm (ARFG) alkali resistant fibreglass reinforcing mesh into the wet material across all panel joints. Apply diagonal bandages (200 mm x 400 mm) across corners of all protrusions including door and window frames. Some contractors prefer to use an angled 6 mm notched trowel to better gauge the application thickness. Ensure mesh is embedded nearer the face of the render and not the substrate surface itself. Do not press the mesh hard against the substrate surface. Once embedded, trowel over the mesh, ensuring it is fully embedded. The use of self adhesive reinforcing mesh is not acceptable. Try to keep taped joints as flush with the surface as possible to reduce the risk of ridges along the joints in the finished coating.	**Coverage:** *Approx. 4 m2 at 3 mm thickness.*
Base Coat Macrender HBS	Apply a second coat of Macrender® HBS and float to a suitable finsh. Refer to Manufacturer's technical manual for actual specified render thickness. Second render coat should only be a skim coat up to 3 mm in thickness. All build up, if required, should be completed in the initial render coat. In fibreglass mesh reinforced systems, an additional mesh layer is required in second coat builds exceeding 3 mm. This will ensure that the mesh reinforcment is positioned near the surface of the render system. Control and movement joints must be placed as per substrate manufacturer's technical manual and must not be bridged by the render or texture coating system. Allow rendered surface to cure for a minimum of 4 days prior to priming or texture coating.	**Coverage:** *Approx 4 m2 at 3 mm thickness.*
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6 m2 per litre.*

Focal Point Rendapanel® / Rendered Finish continued...

Textured Finish Mactexture Trowel-on or Roll-on textured finish	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre for trowel-on textures.* *Approx. 20-40 m2 per 15 litre for roll-on textures.*
Membrane - Sealer Application MAC Satin Flex 100% acrylic membrane	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin Flex 100% acrylic membrane in selected colour. Cutting-in prior to coating application may result in “picture framing”. Always cut in just ahead of or during main application, maintaining a “wet-edge” at all times. Two (2) coats required.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

Focal Point Rendapanel® / Rendered Finish continued...

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MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

EPS MASTERWALL X-SERIES / RENDERED FINISH

MAC specification for coating the accredited Masterwall® X-Series EPS (Expanded Polystyrene) cladding systems.

Applies to: Masterwall® X-Series lightweight EPS cladding system.

Date modified: 18/09/2020 9:01:40 am

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Ensure EPS system to be coated is accredited as per state government regulations. EPS Panel must be rendered soon after installation. Exposure of raw EPS to UV may cause breakdown of the EPS surface making it unsuitable for render. Consult EPS panel manufacturer for details.

EPS MASTERWALL X-Series / Rendered Finish continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 45%. Consult MAC to seek confirmation of colour suitability.	
Trims & Angles Macrender® HBS	For install of all external angles, trims and expansion trims. All trims must be non-corrosive for durabilty in exterior conditions. Refer to product data sheet prior to use. Trowel Macrender® HBS onto panel and embed aluminium/fibreglass combination angles into wet material. Skim over ensuring mesh is no longer visible. All trims must be embedded and meshed into into the wall by minimum of 100 mm. Allow to dry thoroughly prior to application of base render.	
Base Coat - FR Reinforced Macrender HBS + FG Mesh 165 gsm (full cover)	Refer to product data sheet prior to use. Mechanically mix Macrender® HBS powder with approximately 3 - 4 litres of potable water. Allow to stand for 2 minutes then re-blend prior to application. Apply Macrender® HBS with a trowel or angled 6 mm notched trowel. Overlay with fibreglass mesh and work lightly into the wet render ensuring surface is fully covered. **Ensure mesh is sitting near the render surface, not close to the substrate surface.** All build up should be completed in this initial mesh reinforced render coat. For build up greater than 8 mm, contact MAC technical representative for advice. Overlap fibreglass mesh junctures by 100 mm minimum. Ensure render surface finish is suitable for the application of a second coat of render. Corners at openings including window and door frames must be diagonally reinforced with 400 mm x 200 mm fibreglass bandages embedded in the first Macrender® HBS coat. This is in addition to the full fibreglass mesh embedded in the first render coat.	**Coverage:** *Approx 3 m2 per 20 kg bag at 5 mm thickness. Keep mesh at the surface of the render, not pressed against substrate.* *For build up greater than 8 mm, contact MAC technical representative for advice.*

EPS MASTERWALL X-Series / Rendered Finish continued...

Base Coat Macrender HBS	Apply a second coat of Macrender® HBS and float to a suitable finsh. Refer to Manufacturer's technical manual for actual specified render thickness. Second render coat should only be a skim coat up to 3 mm in thickness. All build up, if required, should be completed in the initial render coat. In fibreglass mesh reinforced systems, an additional mesh layer is required in second coat builds exceeding 3 mm. This will ensure that the mesh reinforcment is positioned near the surface of the render system. Control and movement joints must be placed as per substrate manufacturer's technical manual and must not be bridged by the render or texture coating system. Allow rendered surface to cure for a minimum of 4 days prior to priming or texture coating.	**Coverage:** *Approx 4 m2 at 3 mm thickness.*
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6 m2 per litre.*
Textured Finish Mactexture Trowel-on or Roll-on textured finish	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre for trowel-on textures.* *Approx. 20-40 m2 per 15 litre for roll-on textures.*
Membrane - Sealer Application MAC Satin Flex 100% acrylic membrane	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin Flex 100% acrylic membrane in selected colour. Cutting-in prior to coating application may result in "picture framing". Always cut in just ahead of or during main application, maintaining a "wet-edge" at all times. Two (2) coats required.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

EPS MASTERWALL X-Series / Rendered Finish continued...

Notes

Many EPS cladding systems carry an accreditation deeming them suitable for use for specific construction classes throughout Australia.

Whilst this particular specification is approved by some EPS cladding system manufacturers, it does not in itself constitute an approved system. Please consult the relevant system manufacturer (noted above) and use this specification only where approved explicitly by them, in strict accordance with their proprietary installation manuals.

Contact MAC for further details on 03 9794 7004.

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Where used outside of the scope detailed above, suitability of this product should be independently determined prior to use.

MAC will not warrant job defects caused as a result of but not limited to, structural/substrate movement or entrapped moisture. Building movement and structural dynamics is beyond the scope and control of MAC. Accordingly, stresses and joint/substrate movement cannot be contained by the application of the decorative finished detailed in the above specification. Fibreglass mesh reinforcing will provide little to no benefit if adhered directly to, or embedded hard against the substrate. Always ensure reinforcing mesh is embedded in the outer half of the basecoat where the coating face can be better reinforced.

In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

EPS NRG GREENBOARD / RENDERED FINISH

MAC specification for coating of the accredited NRG Greenboard® EPS (Expanded Polystyrene) cladding system.

Applies to: NRG Greenboard®.

Date modified: 18/09/2020 9:01:51 am

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Ensure EPS system to be coated is accredited as per state government regulations. EPS Panel must be rendered soon after installation. Exposure of raw EPS to UV may cause breakdown of the EPS surface making it unsuitable for render. Consult EPS panel manufacturer for details.

EPS NRG Greenboard / Rendered Finish continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 45%. Consult MAC to seek confirmation of colour suitability.	
Trims & Angles Macrender® HBS	For install of all external angles, trims and expansion trims. All trims must be non-corrosive for durabilty in exterior conditions. Refer to product data sheet prior to use. Trowel Macrender® HBS onto panel and embed aluminium/fibreglass combination angles into wet material. Skim over ensuring mesh is no longer visible. All trims must be embedded and meshed into into the wall by minimum of 100 mm. Allow to dry thoroughly prior to application of base render.	
Base Coat - FR Reinforced Macrender HBS + FG Mesh 165 gsm (full cover)	Refer to product data sheet prior to use. Mechanically mix Macrender® HBS powder with approximately 3 - 4 litres of potable water. Allow to stand for 2 minutes then re-blend prior to application. Apply Macrender® HBS with a trowel or angled 6 mm notched trowel. Overlay with fibreglass mesh and work lightly into the wet render ensuring surface is fully covered. **Ensure mesh is sitting near the render surface, not close to the substrate surface.** All build up should be completed in this initial mesh reinforced render coat. For build up greater than 8 mm, contact MAC technical representative for advice. Overlap fibreglass mesh junctures by 100 mm minimum. Ensure render surface finish is suitable for the application of a second coat of render. Corners at openings including window and door frames must be diagonally reinforced with 400 mm x 200 mm fibreglass bandages embedded in the first Macrender® HBS coat. This is in addition to the full fibreglass mesh embedded in the first render coat.	**Coverage:** *Approx 3 m2 per 20 kg bag at 5 mm thickness. Keep mesh at the surface of the render, not pressed against substrate.* *For build up greater than 8 mm, contact MAC technical representative for advice.*

EPS NRG Greenboard / Rendered Finish continued...

Base Coat Macrender HBS	Apply a second coat of Macrender® HBS and float to a suitable finsh. Refer to Manufacturer's technical manual for actual specified render thickness. Second render coat should only be a skim coat up to 3 mm in thickness. All build up, if required, should be completed in the initial render coat. In fibreglass mesh reinforced systems, an additional mesh layer is required in second coat builds exceeding 3 mm. This will ensure that the mesh reinforcment is positioned near the surface of the render system. Control and movement joints must be placed as per substrate manufacturer's technical manual and must not be bridged by the render or texture coating system. Allow rendered surface to cure for a minimum of 4 days prior to priming or texture coating.	**Coverage:** *Approx 4 m2 at 3 mm thickness.*
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6 m2 per litre.*
Textured Finish Mactexture Trowel-on or Roll-on textured finish	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre for trowel-on textures.* *Approx. 20-40 m2 per 15 litre for roll-on textures.*
Membrane - Sealer Application MAC Satin Flex 100% acrylic membrane	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin Flex 100% acrylic membrane in selected colour. Cutting-in prior to coating application may result in "picture framing". Always cut in just ahead of or during main application, maintaining a "wet-edge" at all times. Two (2) coats required.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

EPS NRG Greenboard / Rendered Finish continued...

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In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

EPS ORANGE BOARD / RENDERED SYSTEM

MAC specification for the coating of the accredited RMAX Orange Board EPS (Expanded Polystyrene) cladding systems.

Applies to: RMAX Orange Board® Lightweight EPS Cladding System

Date modified: 18/09/2020 9:05:17 am

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Ensure the RMAX Orange Board system has been installed and rendered in strict accordance with RMAX install manual. Check completed OB Render has already been primed in accordance with RMAX requirements.

EPS Orange Board / Rendered System continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 45%. Consult MAC to seek confirmation of colour suitability.	
Textured Finish Mactexture Trowel-on or Roll-on textured finish	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre for trowel-on textures.* *Approx. 20-40 m2 per 15 litre for roll-on textures.*
Membrane - Sealer Application MAC Satin Flex 100% acrylic membrane	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin Flex 100% acrylic membrane in selected colour. Cutting-in prior to coating application may result in "picture framing". Always cut in just ahead of or during main application, maintaining a "wet-edge" at all times. Two (2) coats required.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

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In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

EPS RAW / RENDERED SYSTEM

MAC specification for the coating of accredited raw EPS (Expanded Polystyrene) cladding systems.

Applies to: Masterwall® X Series , NRG Greenboard, ACE Grey EPS System, RendeX® Applicator Applied System, Balboard Raw EPS System, QT EcoSeries.

Date modified: 18/09/2020 9:05:50 am

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Ensure EPS system to be coated is accredited as per state government regulations. EPS Panel must be rendered soon after installation. Exposure of raw EPS to UV may cause breakdown of the EPS surface making it unsuitable for render. Consult EPS panel manufacturer for details.

EPS RAW / Rendered System continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 45%. Consult MAC to seek confirmation of colour suitability.	
Trims & Angles Macrender® HBS	For install of all external angles, trims and expansion trims. All trims must be non-corrosive for durabilty in exterior conditions. Refer to product data sheet prior to use. Trowel Macrender® HBS onto panel and embed aluminium/fibreglass combination angles into wet material. Skim over ensuring mesh is no longer visible. All trims must be embedded and meshed into into the wall by minimum of 100 mm. Allow to dry thoroughly prior to application of base render.	
Base Coat - FR Reinforced Macrender HBS + FG Mesh 165 gsm (full cover)	Refer to product data sheet prior to use. Mechanically mix Macrender® HBS powder with approximately 3 - 4 litres of potable water. Allow to stand for 2 minutes then re-blend prior to application. Apply Macrender® HBS with a trowel or angled 6 mm notched trowel. Overlay with fibreglass mesh and work lightly into the wet render ensuring surface is fully covered. **Ensure mesh is sitting near the render surface, not close to the substrate surface.** All build up should be completed in this initial mesh reinforced render coat. For build up greater than 8 mm, contact MAC technical representative for advice. Overlap fibreglass mesh junctures by 100 mm minimum. Ensure render surface finish is suitable for the application of a second coat of render. Corners at openings including window and door frames must be diagonally reinforced with 400 mm x 200 mm fibreglass bandages embedded in the first Macrender® HBS coat. This is in addition to the full fibreglass mesh embedded in the first render coat.	**Coverage:** *Approx 3 m2 per 20 kg bag at 5 mm thickness. Keep mesh at the surface of the render, not pressed against substrate.* *For build up greater than 8 mm, contact MAC technical representative for advice.*

EPS RAW / Rendered System continued...

Base Coat Macrender HBS	Apply a second coat of Macrender® HBS and float to a suitable finsh. Refer to Manufacturer's technical manual for actual specified render thickness. Second render coat should only be a skim coat up to 3 mm in thickness. All build up, if required, should be completed in the initial render coat. In fibreglass mesh reinforced systems, an additional mesh layer is required in second coat builds exceeding 3 mm. This will ensure that the mesh reinforcment is positioned near the surface of the render system. Control and movement joints must be placed as per substrate manufacturer's technical manual and must not be bridged by the render or texture coating system. Allow rendered surface to cure for a minimum of 4 days prior to priming or texture coating.	**Coverage:** *Approx 4 m2 at 3 mm thickness.*
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6 m2 per litre.*
Textured Finish Mactexture Trowel-on or Roll-on textured finish	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre for trowel-on textures.* *Approx. 20-40 m2 per 15 litre for roll-on textures.*
Membrane - Sealer Application MAC Satin Flex 100% acrylic membrane	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin Flex 100% acrylic membrane in selected colour. Cutting-in prior to coating application may result in "picture framing". Always cut in just ahead of or during main application, maintaining a "wet-edge" at all times. Two (2) coats required.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

EPS RAW / Rendered System continued...

Notes

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Contact MAC for further details on 03 9794 7004.

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MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

EPS RENDEX RAW / RENDERED SYSTEM

MAC specification for coating the accredited Rendex® Applicator Applied EPS (Expanded Polystyrene) cladding systems.

Applies to: Rendex® Applicator Applied Lightweight EPS Cladding System.

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Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Ensure EPS system to be coated is accredited as per state government regulations. EPS Panel must be rendered soon after installation. Exposure of raw EPS to UV may cause breakdown of the EPS surface making it unsuitable for render. Consult EPS panel manufacturer for details.

EPS RENDEX RAW / Rendered System continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 45%. Consult MAC to seek confirmation of colour suitability.	
Base Coat - FR Reinforced Macrender HBS + FG Mesh 165 gsm (full cover)	Refer to product data sheet prior to use. Mechanically mix Macrender® HBS powder with approximately 3 - 4 litres of potable water. Allow to stand for 2 minutes then re-blend prior to application. Apply Macrender® HBS with a trowel or angled 6 mm notched trowel. Overlay with fibreglass mesh and work lightly into the wet render ensuring surface is fully covered. **Ensure mesh is sitting near the render surface, not close to the substrate surface.** All build up should be completed in this initial mesh reinforced render coat. For build up greater than 8 mm, contact MAC technical representative for advice. Overlap fibreglass mesh junctures by 100 mm minimum. Ensure render surface finish is suitable for the application of a second coat of render. Corners at openings including window and door frames must be diagonally reinforced with 400 mm x 200 mm fibreglass bandages embedded in the first Macrender® HBS coat. This is in addition to the full fibreglass mesh embedded in the first render coat.	**Coverage:** *Approx 3 m2 per 20 kg bag at 5 mm thickness. Keep mesh at the surface of the render, not pressed against substrate.* *For build up greater than 8 mm, contact MAC technical representative for advice.*
Base Coat Macrender HBS	Apply a second coat of Macrender® HBS and float to a suitable finsh. Refer to Manufacturer's technical manual for actual specified render thickness. Second render coat should only be a skim coat up to 3 mm in thickness. All build up, if required, should be completed in the initial render coat. In fibreglass mesh reinforced systems, an additional mesh layer is required in second coat builds exceeding 3 mm. This will ensure that the mesh reinforcment is positioned near the surface of the render system. Control and movement joints must be placed as per substrate manufacturer's technical manual and must not be bridged by the render or texture coating system. Allow rendered surface to cure for a minimum of 4 days prior to priming or texture coating.	**Coverage:** *Approx 4 m2 at 3 mm thickness.*

EPS RENDEX RAW / Rendered System continued...

Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6 m2 per litre.*
Textured Finish Mactexture Trowel-on or Roll-on textured finish	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre for trowel-on textures.* *Approx. 20-40 m2 per 15 litre for roll-on textures.*
Membrane - Sealer Application MAC Satin Flex 100% acrylic membrane	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin Flex 100% acrylic membrane in selected colour. Cutting-in prior to coating application may result in “picture framing”. Always cut in just ahead of or during main application, maintaining a “wet-edge” at all times. Two (2) coats required.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*
Notes	Many EPS cladding systems carry an accreditation deeming them suitable for use for specific construction classes throughout Australia. Whilst this particular specification is approved by some EPS cladding system manufacturers, it does not in itself constitute an approved system. Please consult the relevant system manufacturer (noted above) and use this specification only where approved explicitly by them, in strict accordance with their proprietary installation manuals. Contact MAC for further details on 03 9794 7004.	

Disclaimer

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Where used outside of the scope detailed above, suitability of this product should be independently determined prior to use.

MAC will not warrant job defects caused as a result of but not limited to, structural/substrate movement or entrapped moisture. Building movement and structural dynamics is beyond the scope and control of MAC. Accordingly, stresses and joint/substrate movement cannot be contained by the application of the decorative finished detailed in the above specification. Fibreglass mesh reinforcing will provide little to no benefit if adhered directly to, or embedded hard against the substrate. Always ensure reinforcing mesh is embedded in the outer half of the basecoat where the coating face can be better reinforced.

In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

EPS RMAX / HBS

Render and texture coating of RMAX Expanded Polystyrene (EPS) cladding systems.

Applies to: RMAX EPS Cladding Systems installed in accordance with RMAX Installation Manual.

Date modified: 18/09/2020 9:08:28 am

Warranty	10 years from time of application. When applied in accordance with the above specification, MAC will provide a 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Ensure EPS system to be coated is accredited as per state government regulations. EPS Panel must be rendered soon after installation. Exposure of raw EPS to UV may cause breakdown of the EPS surface making it unsuitable for render. Consult EPS panel manufacturer for details.

EPS RMAX / HBS continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 45%. Consult MAC to seek confirmation of colour suitability.	
Trims & Angles Macrender® HBS	For install of all external angles, trims and expansion trims. All trims must be non-corrosive for durabilty in exterior conditions. Refer to product data sheet prior to use. Trowel Macrender® HBS onto panel and embed aluminium/fibreglass combination angles into wet material. Skim over ensuring mesh is no longer visible. All trims must be embedded and meshed into into the wall by minimum of 100 mm. Allow to dry thoroughly prior to application of base render.	
Base Coat - FR Reinforced Macrender HBS + FG Mesh 165 gsm (full cover)	Refer to product data sheet prior to use. Mechanically mix Macrender® HBS powder with approximately 3 - 4 litres of potable water. Allow to stand for 2 minutes then re-blend prior to application. Apply Macrender® HBS with a trowel or angled 6 mm notched trowel. Overlay with fibreglass mesh and work lightly into the wet render ensuring surface is fully covered. **Ensure mesh is sitting near the render surface, not close to the substrate surface.** All build up should be completed in this initial mesh reinforced render coat. For build up greater than 8 mm, contact MAC technical representative for advice. Overlap fibreglass mesh junctures by 100 mm minimum. Ensure render surface finish is suitable for the application of a second coat of render. Corners at openings including window and door frames must be diagonally reinforced with 400 mm x 200 mm fibreglass bandages embedded in the first Macrender® HBS coat. This is in addition to the full fibreglass mesh embedded in the first render coat.	**Coverage:** *Approx 3 m2 per 20 kg bag at 5 mm thickness. Keep mesh at the surface of the render, not pressed against substrate.* *For build up greater than 8 mm, contact MAC technical representative for advice.*

EPS RMAX / HBS continued...

Base Coat Macrender HBS	Apply a second coat of Macrender® HBS and float to a suitable finsh. Refer to Manufacturer's technical manual for actual specified render thickness. Second render coat should only be a skim coat up to 3 mm in thickness. All build up, if required, should be completed in the initial render coat. In fibreglass mesh reinforced systems, an additional mesh layer is required in second coat builds exceeding 3 mm. This will ensure that the mesh reinforcment is positioned near the surface of the render system. Control and movement joints must be placed as per substrate manufacturer's technical manual and must not be bridged by the render or texture coating system. Allow rendered surface to cure for a minimum of 4 days prior to priming or texture coating.	**Coverage:** *Approx 4 m2 at 3 mm thickness.*
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6 m2 per litre.*
Textured Finish Mactexture Trowel-on or Roll-on textured finish	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre for trowel-on textures.* *Approx. 20-40 m2 per 15 litre for roll-on textures.*
Membrane - Sealer Application MAC Satin Flex 100% acrylic membrane	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin Flex 100% acrylic membrane in selected colour. Cutting-in prior to coating application may result in "picture framing". Always cut in just ahead of or during main application, maintaining a "wet-edge" at all times. Two (2) coats required.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

EPS RMAX / HBS continued...

Notes

Many EPS cladding systems carry an accreditation deeming them suitable for use for specific construction classes throughout Australia.

Whilst this particular specification is approved by some EPS cladding system manufacturers, it does not in itself constitute an approved system. Please consult the relevant system manufacturer (noted above) and use this specification only where approved explicitly by them, in strict accordance with their proprietary installation manuals.

Contact MAC for further details on 03 9794 7004.

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In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

FC SHEET (CORE FILLED) / RENDERED FINISH

MAC specification for the coating of commonly encountered fibre-cement building products.

Applies to: Concrete core filled FC sheet constructions, AFS Logicwall, Ritek XL

Date modified: 18/09/2020 9:12:29 am

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Raw/unsealed FC/MgO/Composite sheet must first be primed prior to application of coating system. Unsealed sheet may have a loose, micro-fibrous surface finish which will inhibit adequate surface adhesion of the specified base coat. Factory sealed base sheet may not require priming. Check with manufacturer prior to coating.

FC SHEET (CORE FILLED) / Rendered Finish continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 45%. Consult MAC to seek confirmation of colour suitability.	
Priming Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry completely to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6-10 m2 per litre.*
Base Coat - FR Reinforced Site mixed Macpatch Coarse + Macrender® HBS Alkali resistant FG mesh 160 gsm min.	Clean surface thoroughly, ensuring all contaminants are removed from the surface prior to rendering. Create the base mix by preparing a Macpatch Coarse/Macrender HBS blend at a 50/50 ratio. Prepare 20 kg of Macrender® HBS with 3-4 lites clean water to achieve correct trowelling consistency. Split into 2 x 15 litre pails and top up each half pail with 7.5 litres Macpatch Coarse. Blend thoroughly to achieve a homoginouos mix. Apply site mixed Macpatch Coarse/Macrender® HBS to the surface, embedding 1200 mm (ARFG) alkali resistant fibreglass reinforcing mesh (160 gsm min.) into the wet material across the entire wall surface. Where FG sheets meet, ensure a minimum 100 mm overlap is provided. Some contractors prefer to use an angled 6 mm notched trowel to better gauge the application thickness. Ensure mesh is embedded near the face of the render and not the substrate surface itself. Do not press the mesh hard against the substrate surface.FG mesh will provide little to no benefit if pressed hard against the wall surface. Once embedded, trowel over the mesh, ensuring it is fully embedded and not visible. The use of self adhesive reinforcing mesh is not acceptable. Try to keep taped joints as flush with the surface as possible to reduce the risk of ridges along the joints in the finished coating.	**Coverage:** *3-4 m2 per 17 litre pre-mix.*

FC SHEET (CORE FILLED) / Rendered Finish continued...

Base Coat Site mixed Macpatch Coarse + Macrender® HBS	Create the base mix by preparing a Macpatch Coarse/Macrender HBS blend at a 50/50 ratio. Prepare 20 kg of Macrender® HBS with 3-4 lites clean water to achieve correct trowelling consistency. Split into 2 x 15 litre pails and top up each half pail with 7.5 litres Macpatch Coarse. Blend thoroughly to achieve a homoginouos, lump-free mix. Apply site mixed Macpatch Coarse/Macrender® HBS to the surface at a thickness between 3-6 mm. Once sufficiently firm, float to a finish sutible for application of next component of selected coating system. Allow to dry a minimum of 4 days prior to application of coating system.	**Coverage:** *3-4 m2 per 17 litre pre-mix.*
Textured Finish Mactexture Crystal Plus Trowel-on Mactexture Rustic Roll-on	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre trowel-on.* *Approx. 20-40 m2 per 15 litre.*
Membrane - Sealer Application MAC Satin Flex 100% acrylic membrane	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin Flex 100% acrylic membrane in selected colour. Cutting-in prior to coating application may result in “picture framing”. Always cut in just ahead of or during main application, maintaining a “wet-edge” at all times. Two (2) coats required.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

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In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

FC SHEET (STUD WALL) / RENDERED FINISH

MAC full meshed specification for the coating of commonly encountered fibre-cement building products.

Applies to: FC sheet applied to metal or timber frame constructions.

Date modified: 18/09/2020 9:12:47 am

Warranty	10 years from time of application. When applied in accordance with the above specification, MAC will provide a 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Raw/unsealed FC/MgO/Composite sheet must first be primed prior to application of coating system. Unsealed sheet may have a loose, micro-fibrous surface finish which will inhibit adequate surface adhesion of the specified base coat. Factory sealed base sheet may not require priming. Check with manufacturer prior to coating.

FC SHEET (STUD WALL) / Rendered Finish continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 75%. Consult MAC to seek confirmation of colour suitability.	
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment to all unsealed surfaces prior to application of base render. Allow primer to dry completely to a non-tack finish prior to over-coating. Not required where surface if factory pre-primed with a compatible product. Check with a manufacturer for details. Do not thin this product prior to application.	**Coverage:** *Approx. 6 m2 per litre.*
Trims & Angles External trims and angles embedded with Dri-Patch	For install of all external metal angles, trims and expansion trims. All trims must be non-corrosive for durabilty in exterior conditions. Refer to product data sheet prior to use. Trowel Dri-Patch onto panel and embed aluminium/fibreglass combination angles into wet material. Skim over ensuring mesh is no longer visible. All trims must be embedded and meshed into into the wall by minimum of 100 mm. Allow to dry thoroughly prior to application of base render.	

FC SHEET (STUD WALL) / Rendered Finish continued...

Base Coat - FR Reinforced Site mixed Macpatch Coarse + Macrender® + FG mesh (full cover)	Clean surface thoroughly, ensuring all contaminants are removed from the surface prior to rendering. With a power mixer, blend 15 lts of Macpatch Coarse with 2 litres of Macrender powder. Blend to create a smooth, lump free paste. Apply site mixed Macpatch Coarse/Macrender® to the panel at a thickness of approximately 3 mm, embedding 1200 mm (ARFG) alkali resistant fibreglass reinforcing mesh lightly into the wet material surface across the entire wall area. Where FG sheets meet, ensure a minimum 100 mm overlap is provided. Some contractors prefer to use an angled 8 mm notched trowel to better gauge the application thickness. Ensure mesh is embedded near the face of the render and not pressed against the substrate surface itself. Once embedded, trowel over the mesh, ensuring it is fully embedded. **The use of self adhesive reinforcing mesh is not acceptable.** Try to keep taped joints as flush with the surface as possible to reduce the risk of ridges along the joints in the finished coating.	**Coverage:** *3-4 m2 per 17 litre pre-mix.*
Base Coat Site mixed Macpatch Coarse + Macrender®	Clean surface thoroughly, ensuring all contaminants are removed from the surface prior to rendering. With a power mixer, blend 15 lts of Macpatch Coarse with 2 litres of Macrender powder. Blend to create a smooth, lump free paste. Apply site mixed Macpatch Coarse/Macrender® to the panel, at a thickness of approximately 2 - 3 mm over base coat and float to a smooth surface. Build up over fibreglass reinforced systems of greater than 3 mm will require the use of an additional layer of fibreglass mesh. This will ensure the reinforcing mesh will remain near the surface where it is at its most effective. Ensure, finish is suitable to accept the application of the selected textured coat.	**Coverage:** *3-4 m2 per 17 litre pre-mix*

FC SHEET (STUD WALL) / Rendered Finish continued...

Textured Finish Mactexture Crystal Plus Trowel-on Mactexture Rustic Roll-on	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre trowel-on.* *Approx. 20-40 m2 per 15 litre.*
Membrane - Sealer Application MAC Satin Flex 100% acrylic membrane	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin Flex 100% acrylic membrane in selected colour. Cutting-in prior to coating application may result in “picture framing”. Always cut in just ahead of or during main application, maintaining a “wet-edge” at all times. Two (2) coats required.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

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MAC will not warrant job defects caused as a result of but not limited to, structural/substrate movement or entrapped moisture. Building movement and structural dynamics is beyond the scope and control of MAC. Accordingly, stresses and joint/substrate movement cannot be contained by the application of the decorative finished detailed in the above specification. Fibreglass mesh reinforcing will provide little to no benefit if adhered directly to, or embedded hard against the substrate. Always ensure reinforcing mesh is embedded in the outer half of the basecoat where the coating face can be better reinforced.

In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

FC SHEET / ROLL-ON TEXTURE

MAC specification for joint setting and application of coarse roll-on texture to properly constructed fibre-cement sheet structures.

Applies to: Fibre-cement sheet.

Date modified: 18/09/2020 9:13:12 am

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Raw/unsealed FC/MgO/Composite sheet must first be primed prior to application of coating system. Unsealed sheet may have a loose, micro-fibrous surface finish which will inhibit adequate surface adhesion of the specified base coat. Factory sealed base sheet may not require priming. Check with manufacturer prior to coating.

FC SHEET / Roll-on Texture continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 75%. Consult MAC to seek confirmation of colour suitability.	
Setting Joints Macpatch Fine + Alkali-resistant fibreglass tape (165 gsm min.)	Refer to product data sheet prior to application. Prior to use, miix Macpatch Fine with approximately 10% by volume of portland cement ensuring a uniform consistency. Apply liberally to the primed and rebated joint with a trowel or broad knife. Whilst wet, embed alkali-resistant FG tape (not nylon) and trowel flush ensiring mesh is no longer visible on the surface. Once hard dry, remove excess with sandpaper, bringing joint surface flush with the surface of the FC sheet.	**Coverage:** *Approx. 60 lineal metres per 15 litre*
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6 m2 per litre.*

FC SHEET / Roll-on Texture continued...

Textured Finish Tuscan Roll-on	Refer to technical data sheet prior to application. Prior to commencement of work, ensure a test panel has been completed and approved for both colour, texture, and surface finish. Fill a paint roller tray and thoroughly wet-out the selected texture roller cover. Generously apply Mactexture Tuscan to the wall with a textured roller cover. Alternatively, Tuscan can also be applied with a hawk and trowel if preffered. Spread the fresh material over the wall taking care to coat evenly. Apply in up and down motion but always perform the finishing stroke in the same direction to produce a uniform appearance. Work quickly and always maintain a 'wet-edge'. It is important to not thin the material or over spread the coating. Cutting in with a brush mush be carried out simultaneously and over-rolled to reproduce the correct textured effect. To help with work-flow on larger walls, ensure scaffold is erected and loaded with sufficient product. This will eliminate any stop/start activity which may result in unsatisfactory results. It is imperative to maintain a 'wet-edge' during application of Mactexture coatings. All faces should be completed in a single session avoiding dry-joins and wet-on-dry overlaps. Where possible, avoid working in direct sunlight and excessively hot or windy conditions. For a "tipped-off" effect, wait until the texture is touch dry but the peaks can still be flattened with a light touch. Take a clean, damp steel trowel and trowel off points to achieve selected finish. Ensure trowel is kept clean at all times during the "tipping-off" process.	**Coverage:** *Approx. 20 m2 per 15 litre pail. Depends on application.*
Membrane - Sealer Application MAC Satin or Satin Flex	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin/Satin Flex acrylic membrane in selected colour. Cutting-in prior to coating application may result in "picture framing". Always cut in during main application, maintaining a "wet-edge" at all times. Two (2) coats required. 7 year warranty applicable for Satin with 10 year warranty applicable for Satin Flex.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

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In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

MGO (STUD WALL) / RENDERED FINISH

Render and texture coating system to magnesium oxide (MgO) base board facing over timber or steel stud wall constructions.

Applies to: Magnesium oxide (MgO) base boards including Ezy-Lite.

Date modified: 18/09/2020 9:14:05 am

Warranty	10 years from time of application. When applied in accordance with the above specification, MAC will provide a 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.

MGO (STUD WALL) / Rendered Finish continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 45%. Consult MAC to seek confirmation of colour suitability.	
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment to all unsealed surfaces prior to application of base render. Allow primer to dry completely to a non-tack finish prior to over-coating. Not required where surface if factory pre-primed with a compatible product. Check with a manufacturer for details. Do not thin this product prior to application.	**Coverage:** *Approx. 6 m2 per litre.*
Base Coat - FR Reinforced Site mixed Macpatch Coarse + Macrender® + FG mesh (full cover)	Clean surface thoroughly, ensuring all contaminants are removed from the surface prior to rendering. With a power mixer, blend 15 lts of Macpatch Coarse with 2 litres of Macrender powder. Blend to create a smooth, lump free paste. Apply site mixed Macpatch Coarse/Macrender® to the panel at a thickness of approximately 3 mm, embedding 1200 mm (ARFG) alkali resistant fibreglass reinforcing mesh lightly into the wet material surface across the entire wall area. Where FG sheets meet, ensure a minimum 100 mm overlap is provided. Some contractors prefer to use an angled 8 mm notched trowel to better gauge the application thickness. Ensure mesh is embedded near the face of the render and not pressed against the substrate surface itself. Once embedded, trowel over the mesh, ensuring it is fully embedded. **The use of self adhesive reinforcing mesh is not acceptable.** Try to keep taped joints as flush with the surface as possible to reduce the risk of ridges along the joints in the finished coating.	**Coverage:** *3-4 m2 per 17 litre pre-mix.*

MGO (STUD WALL) / Rendered Finish continued...

Base Coat Site mixed Macpatch Coarse + Macrender®	Clean surface thoroughly, ensuring all contaminants are removed from the surface prior to rendering. With a power mixer, blend 15 lts of Macpatch Coarse with 2 litres of Macrender powder. Blend to create a smooth, lump free paste. Apply site mixed Macpatch Coarse/Macrender® to the panel, at a thickness of approximately 2 - 3 mm over base coat and float to a smooth surface. Build up over fibreglass reinforced systems of greater than 3 mm will require the use of an additional layer of fibreglass mesh. This will ensure the reinforcing mesh will remain near the surface where it is at its most effective. Ensure, finish is suitable to accept the application of the selected textured coat.	**Coverage:** *3-4 m2 per 17 litre pre-mix*
Textured Finish Mactexture Crystal Plus Trowel-on Mactexture Rustic Roll-on	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre trowel-on.* *Approx. 20-40 m2 per 15 litre.*
Membrane - Sealer Application MAC Satin Flex 100% acrylic membrane	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin Flex 100% acrylic membrane in selected colour. Cutting-in prior to coating application may result in “picture framing”. Always cut in just ahead of or during main application, maintaining a “wet-edge” at all times. Two (2) coats required.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

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In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

MGO COMPOSITE PANEL / RENDERED FINISH

Application to MgO faced structural composite panel systems.

Applies to: MgO faced structural composite panel systems.

Date modified: 18/09/2020 9:13:49 am

Warranty	15 years from time of application. When applied in accordance with the above specification, MAC will provide a 15 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Raw/unsealed FC/MgO/Composite sheet must first be primed prior to application of coating system. Unsealed sheet may have a loose, micro-fibrous surface finish which will inhibit adequate surface adhesion of the specified base coat. Factory sealed base sheet may not require priming. Check with manufacturer prior to coating.

MGO COMPOSITE PANEL / Rendered Finish continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 45%. Consult MAC to seek confirmation of colour suitability.	
Priming Pro-Prime	Apply with brush, roller or suitable spray equipment to clean and dry substrate prior to application of base coat. **Allow primer to dry completely (minimum 24 hours) prior to overcoating with high polymer basecoat renders only.** Do not thin this product prior to application.	**Coverage:** *Approx 6-10 m2 per litre.*
Trims & Angles External trims and angles embedded with Dri-Patch	For install of all external metal angles, trims and expansion trims. All trims must be non-corrosive for durabilty in exterior conditions. Refer to product data sheet prior to use. Trowel Dri-Patch onto panel and embed aluminium/fibreglass combination angles into wet material. Skim over ensuring mesh is no longer visible. All trims must be embedded and meshed into into the wall by minimum of 100 mm. Allow to dry thoroughly prior to application of base render.	

MGO COMPOSITE PANEL / Rendered Finish continued...

Base Coat - FR Reinforced

Site mixed Macpatch Coarse + Macrender® HBS

Alkali resistant FG mesh 160 gsm min.

Clean surface thoroughly, ensuring all contaminants are removed from the surface prior to rendering.

Create the base mix by preparing a Macpatch Coarse/Macrender HBS blend at a 50/50 ratio.

Prepare 20 kg of Macrender® HBS with 3-4 lites clean water to achieve correct trowelling consistency. Split into 2 x 15 litre pails and top up each half pail with 7.5 litres Macpatch Coarse. Blend thoroughly to achieve a homoginouos mix.

Apply site mixed Macpatch Coarse/Macrender® HBS to the surface, embedding 1200 mm (ARFG) alkali resistant fibreglass reinforcing mesh (160 gsm min.) into the wet material across the entire wall surface. Where FG sheets meet, ensure a minimum 100 mm overlap is provided.

Some contractors prefer to use an angled 6 mm notched trowel to better gauge the application thickness.

Ensure mesh is embedded near the face of the render and not the substrate surface itself. Do not press the mesh hard against the substrate surface.FG mesh will provide little to no benefit if pressed hard against the wall surface.

Once embedded, trowel over the mesh, ensuring it is fully embedded and not visible. The use of self adhesive reinforcing mesh is not acceptable.

Try to keep taped joints as flush with the surface as possible to reduce the risk of ridges along the joints in the finished coating.

Coverage:

3-4 m2 per 17 litre pre-mix.

Base Coat

Site mixed Macpatch Coarse + Macrender® HBS

Create the base mix by preparing a Macpatch Coarse/Macrender HBS blend at a 50/50 ratio.

Prepare 20 kg of Macrender® HBS with 3-4 lites clean water to achieve correct trowelling consistency. Split into 2 x 15 litre pails and top up each half pail with 7.5 litres Macpatch Coarse. Blend thoroughly to achieve a homoginouos, lump-free mix.

Apply site mixed Macpatch Coarse/Macrender® HBS to the surface at a thickness between 3-6 mm. Once sufficiently firm, float to a finish sutible for application of next component of selected coating system.

Allow to dry a minimum of 4 days prior to application of coating system.

Coverage:

3-4 m2 per 17 litre pre-mix.

MGO COMPOSITE PANEL / Rendered Finish continued...

Textured Finish Mactexture Crystal Plus Trowel-on Mactexture Rustic Roll-on	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre trowel-on.* *Approx. 20-40 m2 per 15 litre.*
Membrane - Sealer Application MAC Satin Flex 100% acrylic membrane	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin Flex 100% acrylic membrane in selected colour. Cutting-in prior to coating application may result in “picture framing”. Always cut in just ahead of or during main application, maintaining a “wet-edge” at all times. Two (2) coats required.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

MGO COMPOSITE PANEL / Rendered Finish continued...

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MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

BLOCKWORK / PREMIUM RENDERED FINISH

Premium, fully meshed render and textured finish to concrete blockwork.

Applies to: Unpainted concrete blockwork constructions.

Date modified: 18/09/2020 8:46:15 am

Warranty	10 years from time of application. When applied in accordance with the above specification, MAC will provide a 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Fill any holes and repair imperfections in with any of MAC's standard grade renders such as Macrender®. Allow repaired sections to dry fully before application of textured finish.

Blockwork / PREMIUM Rendered finish continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
Base Coat - FR Reinforced Macrender HBS + FG Mesh 165 gsm (full cover)	Refer to product data sheet prior to use. Mechanically mix Macrender® HBS powder with approximately 3 - 4 litres of potable water. Allow to stand for 2 minutes then re-blend prior to application. Apply Macrender® HBS with a trowel or angled 6 mm notched trowel. Overlay with fibreglass mesh and work lightly into the wet render ensuring surface is fully covered. **Ensure mesh is sitting near the render surface, not close to the substrate surface.** All build up should be completed in this initial mesh reinforced render coat. For build up greater than 8 mm, contact MAC technical representative for advice. Overlap fibreglass mesh junctures by 100 mm minimum. Ensure render surface finish is suitable for the application of a second coat of render. Corners at openings including window and door frames must be diagonally reinforced with 400 mm x 200 mm fibreglass bandages embedded in the first Macrender® HBS coat. This is in addition to the full fibreglass mesh embedded in the first render coat.	**Coverage:** *Approx 3 m2 per 20 kg bag at 5 mm thickness. Keep mesh at the surface of the render, not pressed against substrate.* *For build up greater than 8 mm, contact MAC technical representative for advice.*
Base Coat Macrender / Macrender Coarse / Supaskim / (Macbond:water ratio 1:14) only when applied over HBS.	Refer to product data sheet prior to application. Mix render with potable water (or Macbond gauging solution if required) as directed and apply evenly with trowel at a thickness between 3 - 6 mm. Allow to firm up sufficiently prior to floating to a level surface using a plastic render float. Ensure suitable finish has been achieved for successful application of selected coating. If second render coat is being applied over a basecoat of HBS, mix using a Macbond:water ratio of 1:14. Allow to dry for a minimum 4 days prior to application of a textured finish or membrane.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.*
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6 m2 per litre.*

Blockwork / PREMIUM Rendered finish continued...

Textured Finish Mactexture Trowel-on or Roll-on textured finish	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre for trowel-on textures.* *Approx. 20-40 m2 per 15 litre for roll-on textures.*
Membrane - Sealer Application MAC Satin Flex 100% acrylic membrane	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin Flex 100% acrylic membrane in selected colour. Cutting-in prior to coating application may result in “picture framing”. Always cut in just ahead of or during main application, maintaining a “wet-edge” at all times. Two (2) coats required.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

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MAC will not warrant job defects caused as a result of but not limited to, structural/substrate movement or entrapped moisture. Building movement and structural dynamics is beyond the scope and control of MAC. Accordingly, stresses and joint/substrate movement cannot be contained by the application of the decorative finished detailed in the above specification. Fibreglass mesh reinforcing will provide little to no benefit if adhered directly to, or embedded hard against the substrate. Always ensure reinforcing mesh is embedded in the outer half of the basecoat where the coating face can be better reinforced.

In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

BLOCKWORK / RENDERED FINISH

Standard render and textured finish to concrete blockwork.

Applies to: Unpainted concrete blockwork constructions.

Date modified: 18/09/2020 8:48:01 am

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Fill any holes and repair imperfections in with any of MAC's standard grade renders such as Macrender®. Allow repaired sections to dry fully before application of textured finish.

Blockwork / Rendered Finish continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
Base Coat - FR Reinforced Macrender® Coarse FR + FG Mesh 165 gsm	Refer to product data sheet prior to use. Mechanically mix Macrender® Coarse FR powder with approximately 3 - 4 litres of potable water. Allow to stand for 2 minutes then re-blend prior to application. Apply Macrender® Coarse FR with a trowel or angled 6 mm notched trowel. Overlay with fibreglass mesh and work lightly into the wet render ensuring surface is fully covered. Ensure mesh is sitting near the render surface, not close to the substrate surface. Overlap fibreglass mesh junctures by 100 mm minimum. Ensure render surface finish is suitable for the application of a second coat of render. Corners at openings including window and door frames must be diagonally reinforced with 400 mm x 200 mm fibreglass bandages embedded in the first Macrender® Coarse FR coat. This is in addition to the full fibreglass mesh embedded in the first render coat.	**Coverage:** *Approx 3 m2 per 20 kg bag at 3 mm thickmess.*
Base Coat Macrender / Macrender Coarse / Supaskim / (Macbond:water ratio 1:14) only when applied over HBS.	Refer to product data sheet prior to application. Mix render with potable water (or Macbond gauging solution if required) as directed and apply evenly with trowel at a thickness between 3 - 6 mm. Allow to firm up sufficiently prior to floating to a level surface using a plastic render float. Ensure suitable finish has been achieved for successful application of selected coating. If second render coat is being applied over a basecoat of HBS, mix using a Macbond:water ratio of 1:14. Allow to dry for a minimum 4 days prior to application of a textured finish or membrane.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.*

Blockwork / Rendered Finish continued...

Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment to all unsealed surfaces prior to application of base render. Allow primer to dry completely to a non-tack finish prior to over-coating. Not required where surface if factory pre-primed with a compatible product. Check with a manufacturer for details. Do not thin this product prior to application.	**Coverage:** *Approx. 6 m2 per litre.*
Textured Finish Mactexture Trowel-on or Roll-on textured finish	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre for trowel-on textures.* *Approx. 20-40 m2 per 15 litre for roll-on textures.*
Membrane - Sealer Application MAC Satin or Satin Flex	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin/Satin Flex acrylic membrane in selected colour. Cutting-in prior to coating application may result in “picture framing”. Always cut in during main application, maintaining a “wet-edge” at all times. Two (2) coats required. 7 year warranty applicable for Satin with 10 year warranty applicable for Satin Flex.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

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MAC will not warrant job defects caused as a result of but not limited to, structural/substrate movement or entrapped moisture. Building movement and structural dynamics is beyond the scope and control of MAC. Accordingly, stresses and joint/substrate movement cannot be contained by the application of the decorative finished detailed in the above specification. Fibreglass mesh reinforcing will provide little to no benefit if adhered directly to, or embedded hard against the substrate. Always ensure reinforcing mesh is embedded in the outer half of the basecoat where the coating face can be better reinforced.

In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

BLOCKWORK / ROUGHCAST FINISH

Applcation of roughcast render finish to concrete blockwork constructions.

Applies to: Concrete blockwork constructions.

Date modified: 18/09/2020 8:45:05 am

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Fill any holes and repair imperfections in with any of MAC's standard grade renders such as Macrender®. Allow repaired sections to dry fully before application of textured finish.

Blockwork / Roughcast Finish continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
Base Coat Macrender® Coarse FR	Refer to product data sheet prior to application. Extremely porous surfaces may be lightly dampened with water prior to render application. Do not apply render over pooling water. Mix render with potable water as directed and apply evenly with trowel at a thickness between 3 - 6 mm. Allow to firm up sufficiently prior to floating to a level surface using a plastic render float. A second coat can be applied if acceptable surface finish has not been achieved in a single coat.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.*
Base Coat Macrender® (Macbond:water ratio 1:4) only when applied over HBS or Coarse FR.	Refer to product data sheet prior to application. When applying over a basecoat of HBS or Coarse FR, mix using a Macbond:water ratio of 1:15. Apply a second coat of Macrender® ensuring a minimum 5 mm combined render thickness has been achieved. Refer to Manufacturer's technical manual for actual specified render thickness. For roughcast finish, apply a thin coat of Macrender® at approximately 2-3 mm in thickness. Whilst stil wet, flick Macrender® mixed with selected aggregate such as 1/4" minus onto the surface to achieve the desired surface finish. This can be done using a coarse brush or tyrolean splatter gun. Control and movement joints must be placed as per manufacturer's technical manual and must not be bridged by the render or texture coating system. Allow rendered surface to cure for a minimum of 4 days prior to painting.	**Coverage:** *Approx 1-2 m2 at 3 mm thickness.*

Blockwork / Roughcast Finish continued...

Membrane - Sealer Application

MAC Satin or Satin Flex

Refer to product data sheet prior to application.

Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours).

With roller or suitable spray equipment, apply two coats of MAC Satin/Satin Flex acrylic membrane in selected colour.

Cutting-in prior to coating application may result in “picture framing”. Always cut in during main application, maintaining a “wet-edge” at all times.

Two (2) coats required. 7 year warranty applicable for Satin with 10 year warranty applicable for Satin Flex.

Coverage:

Approximately 4 m2 per litre per coat. 2 coats required

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In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun’s rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

BRICK (PAINTED) / RENDERED FINISH

Render and textured finish to previously painted masonry surfaces.

Applies to: Sound and stable previously painted brickwork.

Date modified: 18/09/2020 8:52:45 am

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Fill any holes and repair imperfections in with any of MAC's standard grade renders such as Macrender®. Allow repaired sections to dry fully before application of textured finish.

Brick (Painted) / Rendered Finish continued...

Base Coat Macrender® HBS	Refer to product data sheet prior to application. Mix Macrender® HBS with potable water as directed and apply evenly with trowel at a thickness between 3 - 6 mm. Allow to firm up sufficiently prior to floating to a level surface using a plastic render float A second coat can be applied if acceptable surface finish has not been achieved in a single coat. If not over-coating with a further render coat, allow to dry for a minimum 4 days prior to application of a textured finish or membrane.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.*
Base Coat Macrender / Macrender Coarse / Supaskim / (Macbond:water ratio 1:14) only when applied over HBS.	Refer to product data sheet prior to application. Mix render with potable water (or Macbond gauging solution if required) as directed and apply evenly with trowel at a thickness between 3 - 6 mm. Allow to firm up sufficiently prior to floating to a level surface using a plastic render float. Ensure suitable finish has been achieved for successful application of selected coating. If second render coat is being applied over a basecoat of HBS, mix using a Macbond:water ratio of 1:14. Allow to dry for a minimum 4 days prior to application of a textured finish or membrane.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.*
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6 m2 per litre.*
Textured Finish Mactexture Trowel-on or Roll-on textured finish	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre for trowel-on textures.* *Approx. 20-40 m2 per 15 litre for roll-on textures.*

Brick (Painted) / Rendered Finish continued...

Membrane - Sealer Application

MAC Satin or Satin Flex

Refer to product data sheet prior to application.

Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours).

With roller or suitable spray equipment, apply two coats of MAC Satin/Satin Flex acrylic membrane in selected colour.

Cutting-in prior to coating application may result in “picture framing”. Always cut in during main application, maintaining a “wet-edge” at all times.

Two (2) coats required. 7 year warranty applicable for Satin with 10 year warranty applicable for Satin Flex.

Coverage:

Approximately 4 m2 per litre per coat. 2 coats required

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In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun’s rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

BRICK / DRITEX FINISH

MAC coating specification for the render and Dri-Tex coating of selected porous masonry surfaces.

Applies to: Stable and porous masonry surfaces including concrete and clay bricks and blocks.

Date modified: 18/09/2020 8:55:27 am

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.

Brick / DRITEX Finish continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
Base Coat Macrender / Macrender Coarse / Supaskim / Hi-Build	Refer to product data sheet prior to application. Extremely porous surfaces may be lightly dampened with water prior to render application. Do not apply render over pooling water. Mix render with potable water as directed and apply evenly with trowel at a thickness between 3 - 6 mm. For rougher brickwork, apply Hi-Build render up to 10 mm thickness in a single coat. Allow to firm up sufficiently prior to floating to a level surface using a plastic render float A second coat can be applied if acceptable surface finish has not been achieved in a single coat.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.* *Hi-Build approx 1 m2 per 16 kg at 10mm thickness.*
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6 m2 per litre.*
Textured Finish Dritex	Refer to product data sheet prior to application. Power mix on site wath water at a rate of approximately 4.5 litres per 20 kg of Dri-Tex powder. Apply Dri-Tex to the surface with a steel trowel and spread evenly at a thickness governed by the coarsest particle size (approximately 1.5 mm). Once applied, make ready for finishing by removing excess material using a steel trowel. Using a plastic texture float, rub the wet Dri-Tex in a circular motion to create a uniform appearance. Stop regularly to remove excess paste from the face of the finishing trowel then return to floating until surface is uniform. Once the desired finish has been achieved, continue to apply more material and float. All wall faces must be completed in a single session working from one corner to the other. In order to avoid visible joins, a "wet-edge" should be maintained at all times. For best results, Dri-Tex should not be applied in temperatures above 25˚ Celsius, direct sun or warm and windy conditions.	**Coverage:** *Approx. 9-11 m2 per 20 kg of mixed material.*

Brick / DRITEX Finish continued...

Membrane - Sealer Application

MAC Satin or Satin Flex

Refer to product data sheet prior to application.

Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours).

With roller or suitable spray equipment, apply two coats of MAC Satin/Satin Flex acrylic membrane in selected colour.

Cutting-in prior to coating application may result in “picture framing”. Always cut in during main application, maintaining a “wet-edge” at all times.

Two (2) coats required. 7 year warranty applicable for Satin with 10 year warranty applicable for Satin Flex.

Coverage:

Approximately 4 m2 per litre per coat. 2 coats required

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Application of this product should only be performed by qualified trades people trained in the use of this type of product. Information supplied in this publication is based on our testing and experience and is given in good faith.

Where used outside of the scope detailed above, suitability of this product should be independently determined prior to use.

MAC will not warrant job defects caused as a result of but not limited to, structural/substrate movement or entrapped moisture. Building movement and structural dynamics is beyond the scope and control of MAC. Accordingly, stresses and joint/substrate movement cannot be contained by the application of the decorative finished detailed in the above specification. Fibreglass mesh reinforcing will provide little to no benefit if adhered directly to, or embedded hard against the substrate. Always ensure reinforcing mesh is embedded in the outer half of the basecoat where the coating face can be better reinforced.

In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun’s rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

BRICK / PAINTED RENDER FINISH

Application of painted render finish to masonry bricks and blocks.

Applies to: Clay and cement based bricks and blocks.

Date modified: 18/09/2020 8:56:39 am

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Fill any holes and repair imperfections in with any of MAC's standard grade renders such as Macrender®. Allow repaired sections to dry fully before application of textured finish.

Brick / PaintED Render Finish continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
Base Coat Macrender / Macrender Coarse / Supaskim / Hi-Build	Refer to product data sheet prior to application. Extremely porous surfaces may be lightly dampened with water prior to render application. Do not apply render over pooling water. Mix render with potable water as directed and apply evenly with trowel at a thickness between 3 - 6 mm. For rougher brickwork, apply Hi-Build render up to 10 mm thickness in a single coat. Allow to firm up sufficiently prior to floating to a level surface using a plastic render float A second coat can be applied if acceptable surface finish has not been achieved in a single coat.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.* *Hi-Build approx 1 m2 per 16 kg at 10mm thickness.*
Base Coat Supaskim (Macbond:water ratio 1:4) only when applied over HBS.	Refer to product data sheet prior to application. When applying over a basecoat of HBS, mix using a Macbond:water ratio of 1:15. Mix render with potable water as directed and apply evenly with trowel at a thickness between 3 - 6 mm. Allow to firm up sufficiently prior to screeding or floating to a level surface using a plastic render float. Float lightly with a damp sponge float to produce a fine and evenly grained sand finish. Allow to dry for a minimum 4 days prior to application of selected membrane in selected colour.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.*
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6 m2 per litre.*

Brick / PaintED Render Finish continued...

Membrane - Sealer Application

MAC Satin or Satin Flex

Refer to product data sheet prior to application.

Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours).

With roller or suitable spray equipment, apply two coats of MAC Satin/Satin Flex acrylic membrane in selected colour.

Cutting-in prior to coating application may result in “picture framing”. Always cut in during main application, maintaining a “wet-edge” at all times.

Two (2) coats required. 7 year warranty applicable for Satin with 10 year warranty applicable for Satin Flex.

Coverage:

Approximately 4 m2 per litre per coat. 2 coats required

Disclaimer

BRICK / RENDERED FINISH

MAC coating specification for the render and texture coating of clay or concrete brickwork.

Applies to: Stable and porous clay and concrete bricks.

Date modified: 18/09/2020 8:53:44 am

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.

Brick / Rendered Finish continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
Base Coat Macrender / Macrender Coarse / Supaskim / Hi-Build	Refer to product data sheet prior to application. Extremely porous surfaces may be lightly dampened with water prior to render application. Do not apply render over pooling water. Mix render with potable water as directed and apply evenly with trowel at a thickness between 3 - 6 mm. For rougher brickwork, apply Hi-Build render up to 10 mm thickness in a single coat. Allow to firm up sufficiently prior to floating to a level surface using a plastic render float A second coat can be applied if acceptable surface finish has not been achieved in a single coat.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.* *Hi-Build approx 1 m2 per 16 kg at 10mm thickness.*
Base Coat Macrender / Macrender Coarse / Supaskim / (Macbond:water ratio 1:14) only when applied over HBS.	Refer to product data sheet prior to application. Mix render with potable water (or Macbond gauging solution if required) as directed and apply evenly with trowel at a thickness between 3 - 6 mm. Allow to firm up sufficiently prior to floating to a level surface using a plastic render float. Ensure suitable finish has been achieved for successful application of selected coating. If second render coat is being applied over a basecoat of HBS, mix using a Macbond:water ratio of 1:14. Allow to dry for a minimum 4 days prior to application of a textured finish or membrane.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.*
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6 m2 per litre.*

Brick / Rendered Finish continued...

Textured Finish Mactexture Trowel-on or Roll-on textured finish	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre for trowel-on textures.* *Approx. 20-40 m2 per 15 litre for roll-on textures.*
Membrane - Sealer Application MAC Satin or Satin Flex	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin/Satin Flex acrylic membrane in selected colour. Cutting-in prior to coating application may result in “picture framing”. Always cut in during main application, maintaining a “wet-edge” at all times. Two (2) coats required. 7 year warranty applicable for Satin with 10 year warranty applicable for Satin Flex.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

Brick / Rendered Finish continued...

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In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

BRICK / SPONGE FINISHED RENDER

MAC specification for achieving a painted sponge finish render over porous masonry brickwork.

Applies to: Porous clay and concrete brickwork.

Date modified: 18/09/2020 8:54:17 am

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Fill any holes and repair imperfections in with any of MAC's standard grade renders such as Macrender®. Allow repaired sections to dry fully before application of textured finish.

BRICK / SPONGE FINISHed Render continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
Base Coat Macrender / Macrender Coarse / Supaskim / Hi-Build	Refer to product data sheet prior to application. Extremely porous surfaces may be lightly dampened with water prior to render application. Do not apply render over pooling water. Mix render with potable water as directed and apply evenly with trowel at a thickness between 3 - 6 mm. For rougher brickwork, apply Hi-Build render up to 10 mm thickness in a single coat. Allow to firm up sufficiently prior to floating to a level surface using a plastic render float A second coat can be applied if acceptable surface finish has not been achieved in a single coat.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.* *Hi-Build approx 1 m2 per 16 kg at 10mm thickness.*
Base Coat Supaskim (Macbond:water ratio 1:4) only when applied over HBS.	Refer to product data sheet prior to application. When applying over a basecoat of HBS, mix using a Macbond:water ratio of 1:15. Mix render with potable water as directed and apply evenly with trowel at a thickness between 3 - 6 mm. Allow to firm up sufficiently prior to screeding or floating to a level surface using a plastic render float. Float lightly with a damp sponge float to produce a fine and evenly grained sand finish. Allow to dry for a minimum 4 days prior to application of selected membrane in selected colour.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.*
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6 m2 per litre.*

BRICK / SPONGE FINISHed Render continued...

Membrane - Sealer Application

MAC Satin or Satin Flex

Refer to product data sheet prior to application.

Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours).

With roller or suitable spray equipment, apply two coats of MAC Satin/Satin Flex acrylic membrane in selected colour.

Cutting-in prior to coating application may result in “picture framing”. Always cut in during main application, maintaining a “wet-edge” at all times.

Two (2) coats required. 7 year warranty applicable for Satin with 10 year warranty applicable for Satin Flex.

Coverage:

Approximately 4 m2 per litre per coat. 2 coats required

Disclaimer

BRICK / VERNAZZA FINISH

Application of render and Vernazza finish to porous masonry surfaces including clay and cement bricks.

Applies to: Concrete and clay masonry based brickwork.

Date modified: 18/09/2020 8:56:52 am

Warranty	7 years from time of application. When applied in accordance with the above specification, MAC will provide a 7 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Fill any holes and repair imperfections in with any of MAC's standard grade renders such as Macrender®. Allow repaired sections to dry fully before application of textured finish.

Brick / Vernazza Finish continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
Base Coat Macrender / Macrender Coarse / Supaskim / Hi-Build	Refer to product data sheet prior to application. Extremely porous surfaces may be lightly dampened with water prior to render application. Do not apply render over pooling water. Mix render with potable water as directed and apply evenly with trowel at a thickness between 3 - 6 mm. For rougher brickwork, apply Hi-Build render up to 10 mm thickness in a single coat. Allow to firm up sufficiently prior to floating to a level surface using a plastic render float A second coat can be applied if acceptable surface finish has not been achieved in a single coat.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.* *Hi-Build approx 1 m2 per 16 kg at 10mm thickness.*
Base Coat Macrender / Macrender Coarse / Supaskim / (Macbond:water ratio 1:14) only when applied over HBS.	Refer to product data sheet prior to application. Mix render with potable water (or Macbond gauging solution if required) as directed and apply evenly with trowel at a thickness between 3 - 6 mm. Allow to firm up sufficiently prior to floating to a level surface using a plastic render float. Ensure suitable finish has been achieved for successful application of selected coating. If second render coat is being applied over a basecoat of HBS, mix using a Macbond:water ratio of 1:14. Allow to dry for a minimum 4 days prior to application of a textured finish or membrane.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.*

Brick / Vernazza Finish continued...

Base Coat Macpatch Coarse	Mix Macpatch Coarse thoroughly prior to application. Dust down surface and remove any contaminants which may effect adhesion. If the substrate is ovely porous, apply a single coat of Macprime HP or Macbond diluted 50:50 with water. Allow to dry prior to application of Macpatch Coarse. Apply Macpatch to the surface at a thickness of up to 1.2 mm in thickness. Steel trowel finish to a smooth and tight surface texture. When overcoating with Vernazza, it is best not to float the Macpatch Coarse as it will bring the grains to the surface. Try to keep trowel ripple marks to a marks to a minimum. Ripples can be pressed down further as Macpatch nears full dry. Deep ripples and ridges can be carved off with the edge of a trowel once dry. Allow to dry thoroughly prior to over-coating.	**Coverage:** *Approx. 10-13 m2 per 15 litre pail. May vary depending on roughness and porosity of substrate.*
Textured Finish Vernazza	Vernazza is applied to the wall with a flexible "Venetian" type trowel at a thickness determined by the coarsest aggregates (approx. 0.25 mm). Trowel thinly but as smoothly as possible, keeping ripples to minimum whilst ensuring even coverage. Applying in smaller cross hatched strokes can result in more variation in the final coloured finish. Once first coat has dried, small bumps and ripples can be scraped or sanded off, if neccessary, to ensure a smoother second coat application. Ensure sufficient material has been applied to achieve a uniform colour as patches may show through on the thinly applied second coat. Allow the first thin coat to dry thoroughly. Larger ripples and trowel marks can be carved off with the edge of a trowel prior to application of second coat. Do not attempt to apply Vernazza in thick layers, or using a wet-on-wet technique. Apply second coat at around 0.25 mm and trowel as smooth as possible. Once material has hardened sufficiently, apply light pressure with the trowel, increasing steadily, to smooth the surface to its final finish. Mist lightly with water during finishing to lubricate surface and improve final finish if required. Do not allow misted water to run down the wet finish as this may result in visible streaks when dry. Do not apply in hot, windy conditions and avoid application in direct sunlight, especially on warmer days. Material which is applied in warmer weather or in direct sunlight may skin over on the surface, making it difficult to achieve a smooth and uniform finish.	**Coverage:** *Approx. 16 m2 finished in 2 coats / 21 kg pail*

Brick / Vernazza Finish continued...

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Where used outside of the scope detailed above, suitability of this product should be independently determined prior to use.

MAC will not warrant job defects caused as a result of but not limited to, structural/substrate movement or entrapped moisture. Building movement and structural dynamics is beyond the scope and control of MAC. Accordingly, stresses and joint/substrate movement cannot be contained by the application of the decorative finished detailed in the above specification. Fibreglass mesh reinforcing will provide little to no benefit if adhered directly to, or embedded hard against the substrate. Always ensure reinforcing mesh is embedded in the outer half of the basecoat where the coating face can be better reinforced.

In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

CONCRETE / RENDERED FINISH

Application of render and textured finish to concrete slabs and formwork.

Applies to: New Concrete substrata including off-form, tilt panels, pre-cast.

Date modified: 18/09/2020 8:54:46 am

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.

CONCRETE / Rendered Finish continued...

Substrate Preparation / Specific	Remove grease, form oils and release agents. Any mould or moss must be removed with a suitable mould treatment. Mechanically abrade all shiny surfaces. Exposed steel such as nails, tie wires or spacing bars lying on or very close the surface should be coated with a suitable rust inhibiting treatment to prevent rust stains potentially causing coating system failure. Clean the surface thoroughly with a suitable detergent by scrubbing thoroughly with a stiff bristle broom prior to rinsing clean with fresh water. Check for the presence of Release Agents and Bond Breakers by splashing water onto the substrate, if water beads on the surface then total removal is mandatory. Once washed, reassess using water test and re-wash as required. In coastal areas, care needs to be taken to wash down all areas to remove surface salts and contaminants. A second wash may be required to remove salts that have migrated to the surface during the initial wash. Prior to application of base coat, ensure moisture content is less than 10% WME (wood moisture equivalent) as measured with a standard moisture meter.	
Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
Base Coat Macrender® HBS	Refer to product data sheet prior to application. Mix Macrender® HBS with potable water as directed and apply evenly with trowel at a thickness between 3 - 6 mm. Allow to firm up sufficiently prior to floating to a level surface using a plastic render float A second coat can be applied if acceptable surface finish has not been achieved in a single coat. If not over-coating with a further render coat, allow to dry for a minimum 4 days prior to application of a textured finish or membrane.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.*

CONCRETE / Rendered Finish continued...

Base Coat Macrender / Macrender Coarse / Supaskim / (Macbond:water ratio 1:14) only when applied over HBS.	Refer to product data sheet prior to application. Mix render with potable water (or Macbond gauging solution if required) as directed and apply evenly with trowel at a thickness between 3 - 6 mm. Allow to firm up sufficiently prior to floating to a level surface using a plastic render float. Ensure suitable finish has been achieved for successful application of selected coating. If second render coat is being applied over a basecoat of HBS, mix using a Macbond:water ratio of 1:14. Allow to dry for a minimum 4 days prior to application of a textured finish or membrane.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.*
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6 m2 per litre.*
Textured Finish Mactexture Trowel-on or Roll-on textured finish	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre for trowel-on textures.* *Approx. 20-40 m2 per 15 litre for roll-on textures.*
Membrane - Sealer Application MAC Satin or Satin Flex	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin/Satin Flex acrylic membrane in selected colour. Cutting-in prior to coating application may result in “picture framing”. Always cut in during main application, maintaining a “wet-edge” at all times. Two (2) coats required. 7 year warranty applicable for Satin with 10 year warranty applicable for Satin Flex.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

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Melbourne Acrylic Coatings Victoria Pty Ltd, its staff and distributors will not accept responsibility for any failure caused as a result of factors beyond our control including but not limited to onsite handling, preparation or application of this product.

Application of this product should only be performed by qualified trades people trained in the use of this type of product. Information supplied in this publication is based on our testing and experience and is given in good faith.

Where used outside of the scope detailed above, suitability of this product should be independently determined prior to use.

MAC will not warrant job defects caused as a result of but not limited to, structural/substrate movement or entrapped moisture. Building movement and structural dynamics is beyond the scope and control of MAC. Accordingly, stresses and joint/substrate movement cannot be contained by the application of the decorative finished detailed in the above specification. Fibreglass mesh reinforcing will provide little to no benefit if adhered directly to, or embedded hard against the substrate. Always ensure reinforcing mesh is embedded in the outer half of the basecoat where the coating face can be better reinforced.

In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

CONCRETE / ROUGHCAST FINISH

Applcation of roughcast render finish to concrete blockwork constructions.

Applies to: Concrete tilt panel and formwork constructions.

Date modified: 18/09/2020 8:45:44 am

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.

CONCRETE / Roughcast Finish continued...

Substrate Preparation / Specific

Remove grease, form oils and release agents. Any mould or moss must be removed with a suitable mould treatment.

Mechanically abrade all shiny surfaces. Exposed steel such as nails, tie wires or spacing bars lying on or very close the surface should be coated with a suitable rust inhibiting treatment to prevent rust stains potentially causing coating system failure.

Clean the surface thoroughly with a suitable detergent by scrubbing thoroughly with a stiff bristle broom prior to rinsing clean with fresh water. Check for the presence of Release Agents and Bond Breakers by splashing water onto the substrate, if water beads on the surface then total removal is mandatory. Once washed, reassess using water test and re-wash as required.

In coastal areas, care needs to be taken to wash down all areas to remove surface salts and contaminants. A second wash may be required to remove salts that have migrated to the surface during the initial wash.

Prior to application of base coat, ensure moisture content is less than 10% WME (wood moisture equivalent) as measured with a standard moisture meter.

Control Joints

Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation.

Control/movement joints must not be bridged by the base coat or finish coat system.

Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.

Base Coat

Macrender® HBS

Refer to product data sheet prior to application.

Mix Macrender® HBS with potable water as directed and apply evenly with trowel at a thickness between 3 - 6 mm.

Allow to firm up sufficiently prior to floating to a level surface using a plastic render float

A second coat can be applied if acceptable surface finish has not been achieved in a single coat.

If not over-coating with a further render coat, allow to dry for a minimum 4 days prior to application of a textured finish or membrane.

Coverage:

Approx 3 m2 per 20 kg for a 5 mm thickness.

CONCRETE / Roughcast Finish continued...

Base Coat Macrender® (Macbond:water ratio 1:4) only when applied over HBS or Coarse FR.	Refer to product data sheet prior to application. When applying over a basecoat of HBS or Coarse FR, mix using a Macbond:water ratio of 1:15. Apply a second coat of Macrender® ensuring a minimum 5 mm combined render thickness has been achieved. Refer to Manufacturer's technical manual for actual specified render thickness. For roughcast finish, apply a thin coat of Macrender® at approximately 2-3 mm in thickness. Whilst stil wet, flick Macrender® mixed with selected aggregate such as 1/4" minus onto the surface to achieve the desired surface finish. This can be done using a coarse brush or tyrolean splatter gun. Control and movement joints must be placed as per manufacturer's technical manual and must not be bridged by the render or texture coating system. Allow rendered surface to cure for a minimum of 4 days prior to painting.	**Coverage:** *Approx 1-2 m2 at 3 mm thickness.*
Membrane - Sealer Application MAC Satin or Satin Flex	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin/Satin Flex acrylic membrane in selected colour. Cutting-in prior to coating application may result in "picture framing". Always cut in during main application, maintaining a "wet-edge" at all times. Two (2) coats required. 7 year warranty applicable for Satin with 10 year warranty applicable for Satin Flex.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

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In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

CONCRETE / SUEDE

Application of Suede finish to concrete formwork and panels.

Applies to: Concrete formwork and tilt panels.

Date modified: 18/09/2020 8:45:32 am

Warranty	7 years from time of application. When applied in accordance with the above specification, MAC will provide a 7 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.

Concrete / suede continued...

Substrate Preparation / Specific	Remove grease, form oils and release agents. Any mould or moss must be removed with a suitable mould treatment. Mechanically abrade all shiny surfaces. Exposed steel such as nails, tie wires or spacing bars lying on or very close the surface should be coated with a suitable rust inhibiting treatment to prevent rust stains potentially causing coating system failure. Clean the surface thoroughly with a suitable detergent by scrubbing thoroughly with a stiff bristle broom prior to rinsing clean with fresh water. Check for the presence of Release Agents and Bond Breakers by splashing water onto the substrate, if water beads on the surface then total removal is mandatory. Once washed, reassess using water test and re-wash as required. In coastal areas, care needs to be taken to wash down all areas to remove surface salts and contaminants. A second wash may be required to remove salts that have migrated to the surface during the initial wash. Prior to application of base coat, ensure moisture content is less than 10% WME (wood moisture equivalent) as measured with a standard moisture meter.	
Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
Base Coat Macrender® HBS	Refer to product data sheet prior to application. Mix Macrender® HBS with potable water as directed and apply evenly with trowel at a thickness between 3 - 6 mm. Allow to firm up sufficiently prior to floating to a level surface using a plastic render float A second coat can be applied if acceptable surface finish has not been achieved in a single coat. If not over-coating with a further render coat, allow to dry for a minimum 4 days prior to application of a textured finish or membrane.	**Coverage:** *Approx 3 m2 per 20 kg for a 5 mm thickness.*

Concrete / suede continued...

Textured Finish Suede Fino	Suede is formulated to provide a thin, smooth trowel finish. For this reason, the surface should be well prepared to accept a 1 mm finishing coat. Suede is best applied in two (2) very thin coats. The first coat is applied to the rendered surface with a steel trowel at a thickness of approximately 0.6 mm. Spread to achieve a uniform, smooth coating trying not to leave excessive trowel marks. Allow the material to harden sufficiently so that it is no longer sticky to the touch. Apply the second coat, wet-on-green, or wet-on-dry, at around 0.6 mm in thickness and trowel as smooth as possible. The material should then be allowed to harden sufficiently (not longer sticky to touch) so that it feels slippery under the trowel. If the material still feels grippy under the trowel, it must be left longer prior to finishing. At this point, it can be ***lightly*** polished flat with a wet steel trowel. Water may be sparingly misted onto the surface to aid the finishing process. Caution should be taken to avoid over-working or over-watering of drying or sticky material. Hard pressure should not be applied until hard set. Overworking and application of excessive water can lead to surface peeling/bubbling during the application process. Final polishing with a steel trowel can generally be completed for some time after hard set has been attained. Total thickness of the finished Suede coating should be approximately 1.5 mm. Avoid application in hot windy conditions as accelerated drying may result in shrinkage cracking, lack of proper mechanical strength development and difficulty in finishing. Moisten porous surfaces with clean water prior to application if rapid set is occurring. Note: As Suede FC is applied and finished by hand, undulations in the surface may be seen during times of extreme glancing-light. In some situations, ultra fine hair cracks may appear (usually only noticeable for a brief period whilst damp). These effects are considered part of the natural character of the product, and are not deemed a product or application fault	**Coverage:** *Approx 10-15 m2 per 13 kg bag*
Membrane - Sealer Application Aquashield Clearcote	Refer to product data sheet prior to application. With roller or suitable spray equipment, apply two coats of MAC Aquashield. Cutting-in prior to coating application may result in “picture framing”. Always cut in during main application, maintaining a “wet-edge” at all times. Roll of excess material to minimise risk of surface blemishes in finished coating. Two (2) coats required. 7 year warranty applicable.	**Coverage:** *Approximately 4-8 m2 per litre.*

Concrete / suede continued...

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In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

KNAUF PERMAROCK® / RENDERED FINISH

Painted render and textured coating specification for application to the Knauf Permarock® cladding system.

Applies to: Knauf Permarock®.

Date modified: 18/09/2020 8:57:36 am

Warranty	10 years from time of application. When applied in accordance with the above specification, MAC will provide a 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Raw/unsealed FC/MgO/Composite sheet must first be primed prior to application of coating system. Unsealed sheet may have a loose, micro-fibrous surface finish which will inhibit adequate surface adhesion of the specified base coat. Factory sealed base sheet may not require priming. Check with manufacturer prior to coating.

Knauf Permarock® / Rendered Finish continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 45%. Consult MAC to seek confirmation of colour suitability.	
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment to all unsealed surfaces prior to application of base render. Allow primer to dry completely to a non-tack finish prior to over-coating. Not required where surface if factory pre-primed with a compatible product. Check with a manufacturer for details. Do not thin this product prior to application.	**Coverage:** *Approx. 6 m2 per litre.*
Trims & Angles Macrender® HBS	For install of all external angles, trims and expansion trims. All trims must be non-corrosive for durabilty in exterior conditions. Refer to product data sheet prior to use. Trowel Macrender® HBS onto panel and embed aluminium/fibreglass combination angles into wet material. Skim over ensuring mesh is no longer visible. All trims must be embedded and meshed into into the wall by minimum of 100 mm. Allow to dry thoroughly prior to application of base render.	

Knauf Permarock® / Rendered Finish continued...

Base Coat - FR Reinforced Macrender HBS + FG Mesh 165 gsm (full cover)	Refer to product data sheet prior to use. Mechanically mix Macrender® HBS powder with approximately 3 - 4 litres of potable water. Allow to stand for 2 minutes then re-blend prior to application. Apply Macrender® HBS with a trowel or angled 6 mm notched trowel. Overlay with fibreglass mesh and work lightly into the wet render ensuring surface is fully covered. **Ensure mesh is sitting near the render surface, not close to the substrate surface.** All build up should be completed in this initial mesh reinforced render coat. For build up greater than 8 mm, contact MAC technical representative for advice. Overlap fibreglass mesh junctures by 100 mm minimum. Ensure render surface finish is suitable for the application of a second coat of render. Corners at openings including window and door frames must be diagonally reinforced with 400 mm x 200 mm fibreglass bandages embedded in the first Macrender® HBS coat. This is in addition to the full fibreglass mesh embedded in the first render coat.	**Coverage:** *Approx 3 m2 per 20 kg bag at 5 mm thickness. Keep mesh at the surface of the render, not pressed against substrate.* *For build up greater than 8 mm, contact MAC technical representative for advice.*
Base Coat Macrender HBS	Apply a second coat of Macrender® HBS and float to a suitable finsh. Refer to Manufacturer's technical manual for actual specified render thickness. Second render coat should only be a skim coat up to 3 mm in thickness. All build up, if required, should be completed in the initial render coat. In fibreglass mesh reinforced systems, an additional mesh layer is required in second coat builds exceeding 3 mm. This will ensure that the mesh reinforcment is positioned near the surface of the render system. Control and movement joints must be placed as per substrate manufacturer's technical manual and must not be bridged by the render or texture coating system. Allow rendered surface to cure for a minimum of 4 days prior to priming or texture coating.	**Coverage:** *Approx 4 m2 at 3 mm thickness.*
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6 m2 per litre.*

Knauf Permarock® / Rendered Finish continued...

Textured Finish Mactexture Crystal Plus Trowel-on Mactexture Rustic Roll-on	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre trowel-on.* *Approx. 20-40 m2 per 15 litre.*
Membrane - Sealer Application MAC Satin Flex 100% acrylic membrane	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin Flex 100% acrylic membrane in selected colour. Cutting-in prior to coating application may result in “picture framing”. Always cut in just ahead of or during main application, maintaining a “wet-edge” at all times. Two (2) coats required.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

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In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

QT ECOSERIES / RENDERED FINSH

Application of render and texture coating system to QT EcoSeries lightweight wall panels.

Applies to: QT EcoSeries wall panels.

Date modified: 18/09/2020 8:57:28 am

Warranty	7 or 10 years from time of application. See notes. When applied in accordance with the above specification, MAC will provide a 7 or 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.

QT EcoSeries / Rendered Finsh continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 45%. Consult MAC to seek confirmation of colour suitability.	
Trims & Angles Macrender® HBS	For install of all external angles, trims and expansion trims. All trims must be non-corrosive for durabilty in exterior conditions. Refer to product data sheet prior to use. Trowel Macrender® HBS onto panel and embed aluminium/fibreglass combination angles into wet material. Skim over ensuring mesh is no longer visible. All trims must be embedded and meshed into into the wall by minimum of 100 mm. Allow to dry thoroughly prior to application of base render.	
Base Coat - FR Reinforced Macrender HBS + FG Mesh 165 gsm (full cover)	Refer to product data sheet prior to use. Mechanically mix Macrender® HBS powder with approximately 3 - 4 litres of potable water. Allow to stand for 2 minutes then re-blend prior to application. Apply Macrender® HBS with a trowel or angled 6 mm notched trowel. Overlay with fibreglass mesh and work lightly into the wet render ensuring surface is fully covered. **Ensure mesh is sitting near the render surface, not close to the substrate surface.** All build up should be completed in this initial mesh reinforced render coat. For build up greater than 8 mm, contact MAC technical representative for advice. Overlap fibreglass mesh junctures by 100 mm minimum. Ensure render surface finish is suitable for the application of a second coat of render. Corners at openings including window and door frames must be diagonally reinforced with 400 mm x 200 mm fibreglass bandages embedded in the first Macrender® HBS coat. This is in addition to the full fibreglass mesh embedded in the first render coat.	**Coverage:** *Approx 3 m2 per 20 kg bag at 5 mm thickness. Keep mesh at the surface of the render, not pressed against substrate.* *For build up greater than 8 mm, contact MAC technical representative for advice.*

QT EcoSeries / Rendered Finsh continued...

Base Coat Macrender HBS	Apply a second coat of Macrender® HBS and float to a suitable finsh. Refer to Manufacturer's technical manual for actual specified render thickness. Second render coat should only be a skim coat up to 3 mm in thickness. All build up, if required, should be completed in the initial render coat. In fibreglass mesh reinforced systems, an additional mesh layer is required in second coat builds exceeding 3 mm. This will ensure that the mesh reinforcment is positioned near the surface of the render system. Control and movement joints must be placed as per substrate manufacturer's technical manual and must not be bridged by the render or texture coating system. Allow rendered surface to cure for a minimum of 4 days prior to priming or texture coating.	**Coverage:** *Approx 4 m2 at 3 mm thickness.*
Textured Finish Mactexture Trowel-on or Roll-on textured finish	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre for trowel-on textures.* *Approx. 20-40 m2 per 15 litre for roll-on textures.*
Membrane - Sealer Application MAC Satin or Satin Flex	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin/Satin Flex acrylic membrane in selected colour. Cutting-in prior to coating application may result in "picture framing". Always cut in during main application, maintaining a "wet-edge" at all times. Two (2) coats required. 7 year warranty applicable for Satin with 10 year warranty applicable for Satin Flex.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

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In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

PLASTERBOARD / VERNAZZA FINISH

Smooth Vernazza finish over properly prepared plasterboard. Internal applications only.

Applies to: Most common brands of plasterboard.

Date modified: 18/09/2020 8:59:36 am

Warranty	15 years from time of application. When applied in accordance with the above specification, MAC will provide a 15 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Ensure plasterboard is installed as per maunfacturer's specifications. Tape, set and flush all sheet joints as though the surface was being prepared for paint. Once joints compounds have dried sand smooth.

Plasterboard / Vernazza FInish continued...

Priming Macprime / Tinted to match final colour.	In order to to ensure uniformity of colour, MAC recommends primer is tinted to match the colour of the final finish. This will help to minimise the possibility of joints and patched showing through the finish coat. Apply with brush, roller or suitable spray equipment to all unsealed surfaces prior to application of base render. Allow primer to dry completely to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx. 6 m2 per litre.*
Textured Finish Vernazza	Vernazza is applied to the wall with a flexible "Venetian" type trowel at a thickness determined by the coarsest aggregates (approx. 0.25 mm). Trowel thinly but as smoothly as possible, keeping ripples to minimum whilst ensuring even coverage. Applying in smaller cross hatched strokes can result in more variation in the final coloured finish. Once first coat has dried, small bumps and ripples can be scraped or sanded off, if neccessary, to ensure a smoother second coat application. Ensure sufficient material has been applied to achieve a uniform colour as patches may show through on the thinly applied second coat. Allow the first thin coat to dry thoroughly. Larger ripples and trowel marks can be carved off with the edge of a trowel prior to application of second coat. Do not attempt to apply Vernazza in thick layers, or using a wet-on-wet technique. Apply second coat at around 0.25 mm and trowel as smooth as possible. Once material has hardened sufficiently, apply light pressure with the trowel, increasing steadily, to smooth the surface to its final finish. Mist lightly with water during finishing to lubricate surface and improve final finish if required. Do not allow misted water to run down the wet finish as this may result in visible streaks when dry. Do not apply in hot, windy conditions and avoid application in direct sunlight, especially on warmer days. Material which is applied in warmer weather or in direct sunlight may skin over on the surface, making it difficult to achieve a smooth and uniform finish.	**Coverage:** *Approx. 16 m2 finished in 2 coats / 21 kg pail*

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In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

PVC / RENDERED FINISH

Application of render and coating system to core filled PVC faced constructions.

Applies to: Dincel®, AFS Rediwall, Risewall

Date modified: 18/09/2020 8:57:55 am

Warranty

10 years from time of application.

When applied in accordance with the above specification, MAC will provide a 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement.

See warranty for details.

Substrate Preparation / General

Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity.

All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes.

All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding.

Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.

PVC / Rendered Finish continued...

Substrate Preparation / Specific	Application of coating system must not begin until concrete has been allowed to cure for a minimum 28 days from time of pour. All hoizontal surfaces such as parapets and tops of fences must have capping removed and be coated with an acrylic based waterproofing membrane such as WPM-440 and allowed to dry thoroughly prior to replacement of capping. Core concrete must have a moisture content less than 15% WME (wood moisture equivalent).	
Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 45%. Consult MAC to seek confirmation of colour suitability.	
Priming Pro-Prime	Apply with brush, roller or suitable spray equipment to clean and dry substrate prior to application of base coat. **Allow primer to dry completely (minimum 24 hours) prior to overcoating with high polymer basecoat renders only.** Do not thin this product prior to application.	**Coverage:** *Approx 6-10 m2 per litre.*

PVC / Rendered Finish continued...

Base Coat - FR Reinforced Macrender HBS + FG Mesh 165 gsm (full cover)	Refer to product data sheet prior to use. Mechanically mix Macrender® HBS powder with approximately 3 - 4 litres of potable water. Allow to stand for 2 minutes then re-blend prior to application. Apply Macrender® HBS with a trowel or angled 6 mm notched trowel. Overlay with fibreglass mesh and work lightly into the wet render ensuring surface is fully covered. **Ensure mesh is sitting near the render surface, not close to the substrate surface.** All build up should be completed in this initial mesh reinforced render coat. For build up greater than 8 mm, contact MAC technical representative for advice. Overlap fibreglass mesh junctures by 100 mm minimum. Ensure render surface finish is suitable for the application of a second coat of render. Corners at openings including window and door frames must be diagonally reinforced with 400 mm x 200 mm fibreglass bandages embedded in the first Macrender® HBS coat. This is in addition to the full fibreglass mesh embedded in the first render coat.	**Coverage:** *Approx 3 m2 per 20 kg bag at 5 mm thickness. Keep mesh at the surface of the render, not pressed against substrate.* *For build up greater than 8 mm, contact MAC technical representative for advice.*
Base Coat Macrender HBS	Apply a second coat of Macrender® HBS and float to a suitable finsh. Refer to Manufacturer's technical manual for actual specified render thickness. Second render coat should only be a skim coat up to 3 mm in thickness. All build up, if required, should be completed in the initial render coat. In fibreglass mesh reinforced systems, an additional mesh layer is required in second coat builds exceeding 3 mm. This will ensure that the mesh reinforcment is positioned near the surface of the render system. Control and movement joints must be placed as per substrate manufacturer's technical manual and must not be bridged by the render or texture coating system. Allow rendered surface to cure for a minimum of 4 days prior to priming or texture coating.	**Coverage:** *Approx 4 m2 at 3 mm thickness.*
Priming Macprime or Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6 m2 per litre.*

PVC / Rendered Finish continued...

Textured Finish Mactexture Crystal Plus Trowel-on Mactexture Rustic Roll-on	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre trowel-on.* *Approx. 20-40 m2 per 15 litre.*
Membrane - Sealer Application MAC Satin Flex 100% acrylic membrane	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). With roller or suitable spray equipment, apply two coats of MAC Satin Flex 100% acrylic membrane in selected colour. Cutting-in prior to coating application may result in “picture framing”. Always cut in just ahead of or during main application, maintaining a “wet-edge” at all times. Two (2) coats required.	**Coverage:** *Approximately 4 m2 per litre per coat. 2 coats required*

PVC / Rendered Finish continued...

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In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

MAC shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure cappings and downpipes are installed/replaced immediately after the application of the render/coating.

All metal components used within the system are to be non-corrosive in composition. Cut ends of metal components should be treated with a suitable rust inhibiting primer prior to overcoating with render and coating system. MAC accepts no responsibility for corrosion of components used within the coating system.

Colour change (fading and chalking) is a natural part of the weathering of applied acrylic finishes and is excluded from all warranty terms. No warranty is provided against coating failure or degradation where LRV (light reflectance values) specifications have not been adhered to or where there has been inadequate maintenance of the coating.

Under certain climatic conditions, shadows present on freshly coated walls during application and curing (i.e. those cast by scaffolding) can result in a permanent shadow effect in the fully dried product. Always avoid application in direct sunlight and provide shade screens where possible.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Complete entire elevations in a single drop using a single batch of material. Always cross-batch drums on site prior to application and check colour/texture uniformity prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.

PANELOK® FG200 / RENDERED FINISH

MAC coating specification for the application of a render and texture coating to the Panelok® Walling System.

Applies to: Panelok® Walling System (SIPS)

Date modified: 18/09/2020 8:59:48 am

Warranty	10 years from time of application. When applied in accordance with the above specification, MAC will provide a 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement. See warranty for details.
Substrate Preparation / General	Substrate/base boards/panels should be installed in strict accordance with substrate manufacturer's technical documentation. Acrylic paints, primers and textured finishes should not be applied to any substrate with a moisture content of greater the 10% wood moisture equivalent (WME), or with an alkalinity reading (pH) of greather than 9. Ensure sufficient curing peiod for cement based surfaces has been reached - Refer to AS 2311 or AS/NZS 4548.5 to determine concrete cure and alkalinity. All surfaces must be clean and free from any impurities which may adversely affect the bond strength of primers, renders and applied finishes. All horizontal surfaces such as, fence caps and window sills must be installed with a minimum 10 degree fall to facilitate drainage of water and eliminate ponding. Ensure all capping and weatherproofing has been installed to ensure moisture cannot attack the finished coating from within the wall system and ensure all down pipes are reconnected after render/coating application.
Substrate Preparation / Specific	Raw/unsealed FC/MgO/Composite sheet must first be primed prior to application of coating system. Unsealed sheet may have a loose, micro-fibrous surface finish which will inhibit adequate surface adhesion of the specified base coat. Factory sealed base sheet may not require priming. Check with manufacturer prior to coating.

PANELOK® FG200 / Rendered Finish continued...

Control Joints	Control/movement joints must be positioned and detailed as per substrate manufacturer's recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. Unless otherwise specified by substrate manufacturer or consulting engineer, MAC requires the placement of control/movement joints at 5 metre (maximum) centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.	
LRV	Dark colours must be avoided to reduce risk of thermal cracking in the coating system caused by severe heat build-up. Selected colour must have an LRV (Light Reflectance Value) greater than 45%. Consult MAC to seek confirmation of colour suitability.	
Priming Macprime HP	Apply with brush, roller or suitable spray equipment prior to application of successive product. Allow primer to dry completely to a non-tack finish prior to over-coating. Do not thin this product prior to application.	**Coverage:** *Approx 6-10 m2 per litre.*
Trims & Angles External trims and angles embedded with Dri-Patch	For install of all external metal angles, trims and expansion trims. All trims must be non-corrosive for durabilty in exterior conditions. Refer to product data sheet prior to use. Trowel Dri-Patch onto panel and embed aluminium/fibreglass combination angles into wet material. Skim over ensuring mesh is no longer visible. All trims must be embedded and meshed into into the wall by minimum of 100 mm. Allow to dry thoroughly prior to application of base render.	

PANELOK® FG200 / Rendered Finish continued...

Base Coat - FR Reinforced Macrender HBS + FG Mesh 165 gsm (full cover)	Refer to product data sheet prior to use. Mechanically mix Macrender® HBS powder with approximately 3 - 4 litres of potable water. Allow to stand for 2 minutes then re-blend prior to application. Apply Macrender® HBS with a trowel or angled 6 mm notched trowel. Overlay with fibreglass mesh and work lightly into the wet render ensuring surface is fully covered. **Ensure mesh is sitting near the render surface, not close to the substrate surface.** All build up should be completed in this initial mesh reinforced render coat. For build up greater than 8 mm, contact MAC technical representative for advice. Overlap fibreglass mesh junctures by 100 mm minimum. Ensure render surface finish is suitable for the application of a second coat of render. Corners at openings including window and door frames must be diagonally reinforced with 400 mm x 200 mm fibreglass bandages embedded in the first Macrender® HBS coat. This is in addition to the full fibreglass mesh embedded in the first render coat.	**Coverage:** *Approx 3 m2 per 20 kg bag at 5 mm thickness. Keep mesh at the surface of the render, not pressed against substrate.* *For build up greater than 8 mm, contact MAC technical representative for advice.*
Base Coat Macrender HBS	Apply a second coat of Macrender® HBS and float to a suitable finsh. Refer to Manufacturer's technical manual for actual specified render thickness. Second render coat should only be a skim coat up to 3 mm in thickness. All build up, if required, should be completed in the initial render coat. In fibreglass mesh reinforced systems, an additional mesh layer is required in second coat builds exceeding 3 mm. This will ensure that the mesh reinforcment is positioned near the surface of the render system. Control and movement joints must be placed as per substrate manufacturer's technical manual and must not be bridged by the render or texture coating system. Allow rendered surface to cure for a minimum of 4 days prior to priming or texture coating.	**Coverage:** *Approx 4 m2 at 3 mm thickness.*
Textured Finish Mactexture Crystal Plus Trowel-on Mactexture Rustic Roll-on	Refer to product data sheet prior to application. Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours). Apply selected trowel-on or roll-on textured finish in selected colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting. Hard dry may take longer than 24 hours under extremely damp, moist or humid conditions. Always order sufficient material to complete the project from a single batch. Complete entire elevations in a single drop using a single batch of material. Always check colour and texture consistency prior to application. MAC will not accept responsibility for colour/texture variation once material has been applied.	**Coverage:** *Approx. 9-12 m2 per 15 litre trowel-on.* *Approx. 20-40 m2 per 15 litre.*

PANELOK® FG200 / Rendered Finish continued...

Membrane - Sealer Application

MAC Satin Flex 100% acrylic membrane

Refer to product data sheet prior to application.

Prior to selection of colour, check this document thoroughly for mention of LRV restrictions (i.e. application of dark colours).

With roller or suitable spray equipment, apply two coats of MAC Satin Flex 100% acrylic membrane in selected colour.

Cutting-in prior to coating application may result in “picture framing”. Always cut in just ahead of or during main application, maintaining a “wet-edge” at all times.

Two (2) coats required.

Coverage:

Approximately 4 m2 per litre per coat. 2 coats required

Disclaimer