

COATING SYSTEM SPECIFICATION: MCS-181023-1

RITEK XL SYSTEM

Render + Texture + Membrane

OVERVIEW

Ritek® Wall Systems are pre-fabricated permanent formwork systems for concrete walls used for all types of external and internal walls. They consist of lightweight panels created by bonding high quality, hard-wearing and durable fibre cement sheets to a patented composite stud assembly. Ritek® Wall Systems are quickly and simply installed on site and then core-filled with reinforced structural concrete to achieve load bearing walls that are fire and sound rated. The fibre cement sheeting remains in place as sacrificial formwork, and provides an excellent substrate for applied finishes such as acrylic render, cladding, tiling and painting.

MATERIALS REQUIRED

- > Dri-Patch
- > Alkali-resistant fibreglass (ARFG) jointing tape (200 mm width) and mesh
- > Macrender® HBS
- > Mactexture® Trowel or roller applied acrylic decorative finish
- > MAC SatinFlex elastomeric, pure acrylic membrane

RITEK XL®

Ritek XL® must be installed as per manufacturer's specifications. All construction and substrate details must conform with applicable building codes and regulations.

RITEK XL® FACE & JOINT ALIGNMENT

Ensure panel alignment is adequate to provide a true and flush surface for the application of the specified base coat. It is the Ritek XL® installer's responsibility to ensure all major misalignments and imperfections are addressed prior to rendering.

CONTROL JOINTS

Control/movement joints must be positioned as per Ritek XL®/engineers recommendation. Control/movement joints must be installed and finished as per Ritek specifications, and not bridged by the base coat or finish coat system. As a minimum, MAC recommends the placement of control/movement joints at 5.4 metre max centres (4.8 metres on north and west facing walls subject to heat exposure) 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.

PREPARATION OF SUBSTRATE

- > Ensure surface is clean and free from contaminate which may adversely effect base coat adhesion.
- > Remove all excess concrete from rebated joints
- > Fixing screws must be flush with rebate surface

RITEK XL / BASECOAT + TEXTURE + MEMBRANE - IN ORDER OF APPLICATION

PRODUCT	PURPOSE	SPREAD RATE / FILM THICKNESS	NOTES
Ritek XL® Construction System	Substrate	N/A	Install as per Ritek XL® Construction System Technical manual.

PRODUCT	PURPOSE	SPREAD RATE / FILM THICKNESS	NOTES
Dri-Patch	FG reinforced jointing compound for use with 165 GSM alkali-resistant reinforcing mesh, 200 mm width (providing 100 mm overlap on each panel at joint).	2-4 mm	Apply to rebated joint and embed 165 GSM alkali-resistant fibreglass mesh. Self-adhesive tape NOT TO BE USED in any circumstances.
Macrender HBS	High bond strength render displaying improved adhesion to organic base coats such as Macpatch Coarse and painted surfaces.	3-6 mm per coat	Apply over entire Ritek® surface. Float to a level surface to accept acrylic trowel-on or roll on textured finish.
Mactexture trowel or roller applied acrylic decorative finish	Provides a uniform textured appearance to the rendered surface.	1.0 - 2.0 mm depending on type	Apply as per specific product data sheet.
SatinFlex	Flexible 100% acrylic membrane with good elongation and weather resistance.	Approx. 4 m ² / litre.	150 micron per coat. Two (2) coats required. <u>Selected colour must have a LRV of greater than 45%</u>

SETTING AND TAPING EXTERNAL JOINTS

- > Use trowel to apply Dri-Patch into rebated joint flush with the surface.
- > Whilst wet, embed 200 mm ARFG. Keep tape/mesh as close as possible to the external face of the jointing compound, whilst still being completely embedded. Do not press the tape/mesh hard up against the Ritek XL® panel. Skim with a further coat of Dri-Patch to ensure FG mesh is covered. Ensure no air voids are trapped under the mesh or within the jointing compound itself.

Required ARFG Reinforcement for setting various trims and angles:

- 165 GSM fibreglass for all applications (non-adhesive type only). Alkali-resistant.
 - Panel-to-panel joints 200 mm.
 - Aluminium corner trims 150 mm (each side) overlap.
 - Combination aluminium/FG angles minimum 75 mm mesh width.
 - Overlap over aluminium nib ends 100 mm.
- > Allow joints to dry prior to application of levelling render coat.

APPLICATION OF LEVELLING RENDER

- > Ensure jointing compound is completely dry prior to the application of levelling render.
- > Ensure Ritek XL® panels have a moisture content of < 10% WME (wood moisture equivalent) prior to rendering.
- > Apply Macrender® HBS at a thickness between 3-6mm. As the render begins to firm up, float in a circular motion to bring the surface to a suitably flat finish ready for the application of the selected texture coating.
- > Take special care to ensure render applied over taped joints does not show any undesirable side-light effects. Use of a straight edge will help, though complete elimination may prove difficult given the substrate type.
- > Allow levelling render to cure for a minimum 4 days prior to application of Texture coating.

APPLICATION OF TEXTURE COATING

- > Apply selected Mactexture trowel-on or roll-on textured finish in selected colour as per product specific data sheet. Allow to dry for a minimum 24 hours, or until full hard cure has been achieved, prior to painting.

FINISH COAT AND MEMBRANE APPLICATION

- > Apply two coats of SatinFlex Elastomeric 100% acrylic membrane in selected colour.
- > Dark colours must be avoided to reduce risk of thermal expansion/contraction leading to cracking in the coating system. Selected colour must have an LRV greater than 45%.

MATERIALS WARRANTY

When applied in as a complete system 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 or structural/substrate movement/breakdown. Change in colour of acrylic finishes is a natural part of the ageing process and is excluded from all warranty terms. See warranty for details.

IMPORTANT NOTE:

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. 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.

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