

MACRENDER® COARSE FR

Coarse grade polymer modified, fibre-reinforced cement-based render for application over rigid and porous masonry based surfaces including aerated concrete blocks and panels.

DESCRIPTION

Macrender® Coarse FR is a coarse grade polymer modified and fibre-reinforced cement based plaster suitable for many rendering and patching applications over substrates including clay/cement bricks and blocks, painted masonry surfaces, precast concrete panels and aerated concrete. Macrender® Coarse FR has been formulated for use as a skim coat render best applied at a thickness ranging between 4-6mm. When applied to a clean and stable substrate, Macrender® Coarse FR will not display typical 'sand and cement' weaknesses such as herringbone cracking and drumminess, thus greatly reducing the risk of under taking costly and unsightly repair work. Note: Macrender® Coarse FR is not recommended for use over FC sheet.

SUITABLE SURFACES

Macrender® Coarse FR can be applied to any rigid masonry based surface with sufficient porosity. Surfaces include:

- > Clay/concrete bricks/blocks
- > Aerated concrete
- > Existing cement renders

Note: Application to low porosity (including primed) or non-rigid surfaces will require the addition of Macbond performance admixture. See Macbond data sheet for further details.

COMPOSITION

Macrender® Coarse FR is composed of HE class portland cement, redispersible polymer powders, graded sands, fibre-reinforcement and workability admixtures. The formulation provides optimum performance, durability and ease of application.

MIX PREPARATION

Fill a clean 15 litre mixing vessel with approximately 3 litres of clean water and slowly add the Macrender® Coarse FR powder whilst stirring. Add entire contents of bag and adjust with more water to achieve the desired consistency. Allow to stand for 2 minutes prior to application. A 20 kg bag of Macrender® Coarse FR will require approximately 4 litres of water. Application to certain substrata may require the addition of Macbond (see below).

APPLICATION

Prior to the application of Macrender® Coarse FR, ensure that the substrate is clean and free of adhesion inhibiting materials such as grease, fungus, moss, dirt, excessive water and mould release agents. Apply the mixture to the substrate using a steel float, taking care to coat evenly. Allow the applied material to firm up sufficiently on the substrate prior to finishing with a large plastic, polystyrene or timber float. Larger floats whilst producing the best results, may marginally slow finishing time. Macrender® Coarse FR can be 'ruled-off' if necessary and must be allowed to cure for a minimum of 5 days prior to the application of a paint or textured finish coat. Areas subject to entrapped moisture will require a substantially longer curing period prior to the application of topcoats. Macrender® Coarse FR should not be applied during extremely hot or windy conditions and should be protected from rain and running water until set. To assist curing, walls may be dampened with a fine mist spray as soon as the surface is firm. See Table below for application recommendations.

FG MESH REINFORCEMENT

Placement of alkali resistant FG reinforcing mesh is recommended over AAC substrates. See table below for recommendations.



SUBSTRATE	OPTION / REQUIRED	RECOMENDED FG REINFORCEMENT
AAC Panels	Option 1. Recommended	200 mm strips of alkali-resistant FG mesh embedded into wet render at all panel junctures. Mesh should be embedded just below render surface (not pressed hard against face of AAC). Do not use self-adhesive mesh.
	Option 2. Highly recommended	Full cover alkali-resistant FG mesh embedded into wet render over entire wall surface. Mesh should be embedded just below render surface (not pressed hard against face of AAC). FG sheets should be overlapped a minimum 100 mm not coinciding with panel joints. Do not use self-adhesive mesh.
AAC Blockwork	Option 1. Recommended	Full cover alkali-resistant FG mesh embedded into wet render over entire wall surface. Mesh should be embedded just below render surface (not pressed hard against face of AAC). FG sheets should be overlapped a minimum 100 mm not coinciding with panel joints. Do not use self-adhesive mesh.
AAC openings including widows and doors	Required	All window and door openings must have corners mechanically reinforced with diagonal fibreglass strips (300 mm x 100 mm) embedded into the first coat of wet base render.

CURING

The strength of the final coating relates directly to the level of hydration of the cement component. Excessively rapid drying will result in a weaker render. MAC recommends that the finished render be lightly hosed with water in the days following application. Curing of the render will significantly improve the strength and durability of the final coating.

SUGGESTED METHODS OF APPLICATION

SUBSTRATE	METHOD
Porous masonry based surfaces such as clay and concrete bricks and blocks	Clean down substrate and apply Macrender® Coarse FR at the required thickness in either one or two coats. Allow to firm up prior to ruling-off and floating smooth. Allow to cure for a minimum of 4 days prior to application of finish coat.
Glazed bricks	Premix a Macbond:water additive at a ratio of 1:10. Use this pre-mix as liquid component during Macrender® Coarse FR preparation (first coat only). Clean down substrate and apply Macrender® Coarse FR at the required thickness in either one or two coats. Allow to firm up before ruling-off and floating smooth. Allow to cure for a minimum of 4 days prior to application of finish coat.
Existing cement renders	Clean down substrate and remove any loose or drummy render. Macrender® Coarse FR will only adhere to the substrate as well as the underlying render so it is essential that only stable material remains. Excessively porous renders should be lightly dampened with water to prevent premature drying of the Macrender® Coarse FR. Clean down substrate and apply Macrender® Coarse FR at the required thickness in either one or two coats. Allow to firm up prior to ruling-off and floating smooth. Allow to cure for a minimum of 4 days prior to application of finish coat.
AAC blocks and panels	Apply Macrender® Coarse FR to the blockwork at a thickness of approximately 3 - 5 mm and float to a smooth finish installing selected FG reinforcing mesh into wet render. Apply a finishing skim coat of Macrender® Coarse FR, ensuring all mesh and joints are fully flushed. Minimum finished render thickness should be between 3 - 6 mm total for one or two coats. . Refer to current coating specifications prior to commencement of works.

SUBSTRATE	METHOD
<p><i>Sealed masonry (including primed) based surfaces</i></p> <p><i>NB: Macrender® HBS recommended</i></p>	<p><i>Premix a Macbond:water additive at a ratio of 1:1. Use this pre-mix as liquid component during Macrender Coarse FR preparation (first coat only).</i></p> <p><i>Clean down substrate and apply Macrender Coarse FR at the required thickness in either one or two coats. Allow to firm up prior to ruling-off and floating smooth. Allow to cure for a minimum of 4 days prior to application of finish coat.</i></p>

MACBOND

Macbond is a high-performance polymer admixture formulated for addition to cement-based renders and adhesives. Macbond is mixed with water in various ratios then added to the dry-mix to provide the required level of adhesion for each specific job. Macbond is not required for all applications. See table for particulars.

PACKAGING

Macrender® Coarse FR is supplied as a dry-mix powder in 20 kg plastic lined, multi-walled paper sacks. Pallet lots of 60 x 20 kg bags are also available.

COVERAGE

A 20 kg bag of Macrender® Coarse FR is expected to cover approximately 4 - 5 square metres at a thickness of 4 - 6 mm.

WASH-UP

Clean tools in clean water immediately after use.

SAFETY

Macrender® Coarse FR is non-toxic however it contains cement which is alkaline in nature. Any material coming into contact with eyes or skin should be immediately flushed with clean water. This product may also contain trace quantities of respirable silica present only as an impurity. Eye, skin and breathing protection is recommended during preparation and application of Macrender® Coarse FR.

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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