

TECHNICAL DATA SHEET

MACRENDER®

Updated 25 Nov 2021

Description Macrender® is a medium grade polymer modified cement based plaster suitable for many rendering and patching applications over stable and porous masonry surfaces.

Coverage Approx. 4-5 m² at a thickness of 3-5 mm



Features & Benefits

- > Factory blended consistency
- > Pre-packaged convenience
- > Just add water, no admixtures *
- > Minimal waste

NOTE: Some situations may require the addition of Macbond performance additive. See below for details.

Application Thickness 4 - 8 mm per coat.

Combustibility Macrender® is non-combustible in accordance with AS 1530.1. Test report available on request.

Pack Size Macrender® is available in 20 kg paper sacks. Available in 60 x bag pallet lots.

Bond Strength Good after 28 days and adequate curing

Suitable Surfaces Macrender® can be applied to most rigid masonry based surfaces with sufficient porosity. Suitable surfaces include:

- > Clay/concrete bricks/blocks
- > Aerated concrete (Macrender® Coarse FR recommended)
- > Existing cement renders

Note: Application over Macrender HBS, Dri-Patch, high polymer renders and other low porosity or non-rigid surfaces (including primed surfaces) will require the addition of Macbond performance admixture. See MAC Coating Specifications for details.

Composition Macrender® is composed of HE class Portland cement, redispersible polymer powders, graded aggregates and workability admixtures. The formulation provides optimum performance, durability and ease of application.

Substrate Condition Macrender® should only be applied over properly prepared substrata, free of dirt dust, grime or any other contaminants which may effect product adhesion.

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Do not apply Macrender® in ambient conditions below 5C or above 35C.

Highly absorbent masonry should first be damped down with fresh water to ensure adequate cement hydration of the applied render. Wait for the wet shine to be absorbed prior to application.

Mix Preparation

Fill a clean 15 litre mixing vessel with approximately 4 litres of clean water and slowly add the Macrender® powder whilst stirring, preferably with a mechanical mixer. Do not add water directly to powder.

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 product will require approximately 4 - 4.5 litres of water.

Application to certain substrata may require the addition of Macbond (see MAC Coating Specifications for details).

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 Macbond data sheet for suggested additions rates.

Application Method

Hawk & trowel or suitable render pumping equipment

Application

Apply the Macrender® mixture to the substrate using a steel float at a thickness of 3-8 mm per coat. Take care to coat evenly. Application of Macrender® can be performed in a single or multiple coat application depending on contractor preference.

Allow the applied material to firm up sufficiently on the substrate prior to finishing with a large plastic, polystyrene or timber float. Depending on grade, a sponge float can be used to bring up a sand finish ready for paint.

Macrender® can be 'ruled-off' if necessary and must be allowed to cure for a minimum of 4 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® 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 hard.

Drying Time

Initial set time of Macrender® will depend significantly depending on surface porosity, ambient temperature and coating thickness. May range between 30 minutes and 10 hours.

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. If the initial set has occurred rapidly, MAC recommends that the rendered surface be moistened soon after set and again in the days following

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application. Curing of the render will significantly improve the strength and durability of the final coating.

Initial cure after 4 days with full cure occurring in 28 days from application.

Precautions & Limitations

- > Not to be used as a top coat
- > Do not apply below 5C or above 35C.
- > Do not apply over 8 mm in thickness per coat.
- > Protect from rain and moisture until hard set has been achieved.
- > Do not apply on FC sheet unless forming part of an approved system.

Clean Up & Disposal

Clean tools in clean water immediately after use. Do not dispose of unused Macrender® into drains or waterways. Dispose of rubbish in accordance with local government regulations.

Storage & Transport

- > Keep dry during storage and transportation.
- > Keep pack firmly sealed.
- > Avoid breathing powder and avoid skin and eye contact.
- > Use within 12 months of purchase.

Safety

Macrender® is classified hazardous/non-dangerous goods. Macrender® contains cement which is alkaline in nature. Any material coming into contact with eyes or skin should be immediately flushed with clean water. Macrender® may also contain trace quantities of silica present only as an impurity. Eye, skin and breathing protection is recommended during preparation and application of this product.

Macrender® weighs 20 kg. Please handle with care to minimise the risk of personal injury.

Portland cement is classified as a Hazardous Substance, Non-Dangerous Goods according to the criteria of NOHSC.

Risk phrases for Portland cement are:

- > R36/37/38 Irritating to eyes, respiratory system and skin
- > R40 Possible risk of irreversible effects
- > R43 May cause sensitisation by skin contact
- > R48/20 Harmful: danger of serious damage to health by prolonged inhalation

Safety Phrases for Portland cement

- > S22 Do not breathe dust
- > S24/25 Avoid contact with skin and eyes
- > S36/37 Wear suitable protective clothing and gloves

Safety Data

Always refer to safety data sheet (SDS) prior to handling and handling and application of Macrender®.

Disclaimer

Macrender® is to be used as part of a MAC Coating Specification. Melbourne Acrylic Coatings

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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. Formulation of coating and renders often requires the use of naturally sourced fillers & aggregates. All care is taken by industry suppliers to remove trace contaminants, however no guarantee/warranty is provided by MAC against spot marks occurring in naturally sourced aggregates provided by third party suppliers.