

COATING SYSTEM SPECIFICATION: MCS-015-13/09

CONCRETE BLOCK WORK

RENDER & ACRYLIC TEXTURE

PREMIUM

General Information

Concrete blocks are one of the more commonly used substrata when a rendered finish is to be used. Due to the large block size, expansion and contraction occurs on a larger scale than for standard brickwork, often resulting in hairline cracking along mortar joints and ultimately coating failure.

Materials Required

- > Macrender® HBS for first (reinforced) and second render coats
- > Fibreglass reinforcing mesh alkali resistant (165 gsm minimum)
- > MAC Primer for application over render prior to finish-coating
- > Mactexture trowel-on or roll-on decorative finish in selected colour (optional)
- > MAC Satin 100% acrylic membrane in selected colour

Coating Schedule - In Order Of Application

PRODUCT	PURPOSE	SPREAD RATE / FILM THICKNESS	NOTES
Macrender® HBS with alkali-resistant fibreglass mesh	First render coat providing adhesion and reinforcement to the blockwork.	3-5 mm thickness. Approx. 4-5 m ² / 20 kg bag	Embed ARFG mesh into wet base coat overlapping min. 100 mm at sheet joints.
Macrender® HBS	Finishing render coat improves levelling of the surface and overall finish.	2-4 mm thickness Approx. 4-5 m ² / 20 kg bag	Levels surface ready for acrylic texture or paint finish
MAC Primer	Acrylic based primer providing sound base and alkalinity barrier for application of textured or painted finish.	Approx. 5 m ² / litre.	Can be diluted 20% with clean water prior to application.
Mactexture acrylic trowel-on/roll-on textured finish	Provides even textured appearance to rendered surface.	Between 0.6 - 1.3 m ² /litre depending on selected grade.	Optional if painted render finish is required.
Satin 100% acrylic (low sheen or matt)	Improves resistance to moisture ingress, fading and dirt pick-up. Also provides limited crack-bridging ability.	Approx. 4 m ² / litre per coat.	2 coats required.

Base Preparation

- > Control and movement joints *must be placed and detailed as per engineer's requirements and must not be bridged by the render and coating system.*
- > Concrete blocks should be installed as per manufacturers technical documentation.

- > All wall should be thoroughly capped/flushed and tanked (where back-filled) and free from any internal moisture which may migrate to the surface at a later stage.
- > All surfaces must be clean and free from any impurities which may adversely affect the bond strength of renders and applied finishes. All joints must be flush filled. Any signs of efflorescence must be thoroughly removed with a wire brush prior to rendering. The cause of the efflorescence must be addressed prior to rendering.
- > Fill any holes and repair imperfections with Hi-Build render ensuring base is suitable for application of a thin base render. Allow repaired sections to dry fully before rendering.
- > In hot, dry and windy conditions, pre-dampening (no excess water on surface) of walls with clean water will extend the working time of the initial render coat. This will ultimately improve bond strength, surface finish and hydration of the render.

Application Of Base Render

- > Apply Macrender® HBS to the blockwork at a thickness of approximately 3 - 5 mm. Whilst wet, fully embed alkali-resistant fibreglass mesh in vertical strips. All FG mesh junctures should have a 100 mm overlap to ensure optimum strength. Once mesh has been embedded, float to a level finish to accept the finish render coat.
- > Once the base coat has set sufficiently, apply a finishing coat of Macrender® HBS, and float or sponge to a finish suitable for the subsequent textured or painted finish. Avoid working in direct sunlight as this may cause accelerated drying during application.
- > Allow rendered surface to cure for a minimum of 4 days prior to overcoating.
- > Prime rendered surface with one coat of MAC Primer and allow to dry thoroughly prior to the application of textured finish or paint.

Finish Coat Application

- > Apply selected Mactexture trowel-on (i.e. 1140 Sandfinish) 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. This stage is optional if render has been sponge finished for paint.
- > Apply two coats of MAC Satin 100% acrylic membrane in selected colour. *The use of dark colours should be avoided as this may increase thermal stresses in the system resulting in hairline cracking.*

Materials Warranty

- > 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 movement. 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. Warranty is limited to the replacement of any materials proven to be faulty. MAC will not warrant job defects caused as a result of but not limited to, structural movement or entrapped moisture.

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