

COATING SYSTEM SPECIFICATION: MCS-181210-1

RENDEX® EXTERNAL CLADDING SYSTEM / APPLICATOR APPLIED

Render + Texture + Membrane

OVERVIEW

The RendeX® External Cladding System, manufactured and supplied by Prestige Wall Systems Pty Ltd (PWS) is a multi-layered, BCA Compliant and fully BRAC Accredited exterior wall cladding system. The benefits are superior energy efficiency, weather resistance, design flexibility, lightweight construction, quick and easy installation, strong and durable structure, yet with the appearance of a rendered brick wall. The RendeX® External Cladding System is an insulating, decorative and protective finish system for exterior walls that can be used in many different types of construction. The RendeX® External Cladding System is a cost effective solution for Domestic, Commercial and Industrial applications.

MATERIALS REQUIRED

- > RendeX® raw EPS base sheets in either 50, 75, 100 mm thickness
- > Breathable building paper (non-breathable paper not accepted)
- > Approved flashing tape for weatherproofing window and door openings.
- > Class 3 galvanised coarse thread screws for fastening sheets. Refer to RendeX® Technical Manual for details.
- > RendeX® 48 mm plastic washers for fastening base sheets.
- > Single component expanding polyurethane foam for bonding all sheet edges during panel installation.
- > Polyurethane construction sealant/adhesive for caulking around window and door reveal/frames after rendering and texture coating.
- > Fibreglass/aluminium combination angles for application to external corners.
- > Dri-Patch high polymer jointing compound for adhering angles to base sheet.
- > Alkali resistant fibreglass (ARFG) reinforcing mesh 165 gsm minimum.
- > 400 mm x 200 mm ARFG bandages (165 gsm minimum) for diagonal reinforcement of window/door openings etc.
- > Macrender® HBS for levelling render coat (2 x coats).
- > Macprime acrylic primer.
- > Mactexture decorative textured finish coat in selected grade and colour.
- > MAC Satin membrane for protective, low maintenance finish coat.

RENDEX® SYSTEM INSTALLATION

- > Install RendeX® system as per technical documentation. The RendeX® Technical Manual is available for download at www.prestigewallsystems.com.au
- > All abutting sheet joints must be fully glued and reinforced in strict accordance with RendeX® Technical Manual.
- > Install trims/angles and starter channels as per RendeX® Technical Manual.

RENDEX® | APPLICATOR APPLIED / IN ORDER OF APPLICATION

PRODUCT	DETAIL	SPREAD RATE	NOTES
Sheet Installation	As per RendeX® installation manual.		
Panel joints / angles / trims / starter channels	All panel joints to be glued in strict accordance with RendeX® Technical Manual. Trims and angles to be selected and installed as per RendeX® specifications.		Refer to RendeX® Technical Manual.

PRODUCT	DETAIL	SPREAD RATE	NOTES
<i>Dri-Patch</i>	<i>For application of external angles and trims.</i>		<i>Embed trims/ angles into wet Dri-Patch and allow to dry prior to application of render.</i>
<i>Macrender® HBS + embedded ARFG into wet render (1st coat).</i> <i>Macrender® HBS applied as a second levelling coat.</i>	<i>Provides strong adhesion to raw EPS base panels and acts as levelling coat. Must be applied within 2 weeks from date of EPS panel install.</i>	<i>3 - 5 mm per coat.</i> <i>Final render coat to be between 6 - 8 mm in total.</i>	<i>DO NOT USE SELF-ADHESIVE MESH.</i> <i>ARFG to be embedded into wet render (1st coat only). Keep ARFG nearer to the surface of the first render coat. Do not push ARFG hard up against base sheet.</i> <i>All ARFG sheets to be overlapped 100 mm minimum at mesh sheet joins.</i>
<i>Macprime</i>	<i>Acrylic primer provides barrier against moisture ingress and reduces effects of alkalinity on acrylic top-coats.</i>	<i>Approx. 5.5 metres per litre.</i>	<i>1 coat.</i>
<i>Mactexture acrylic textured finish</i>	<i>Provides a decorative textured finish and added durability of the coating system.</i>	<i>Varies greatly depending on selected textured finish. See product specific data for further information.</i>	<i>1 coat.</i>
<i>Polyurethane sealant</i>	<i>Applied to window and door reveals/frames after the coating process to provide weathertight seal.</i>	<i>N/A</i>	<i>Required on all systems as per RendeX® Technical Manual.</i>
<i>Satin acrylic membrane</i>	<i>Provides improved resistance against moisture ingress, fading and dirt pick-up. Also provides limited crack-bridging ability.</i> <i>2 x coats required.</i>	<i>Approx. 4 m2 / litre per coat.</i>	<i>2 coats.</i> <i>Selected colour must have LRV greater than 45%.</i>

CONTROL JOINTS

- › Control and movement joints must be placed and installed as per RendeX® Technical Manual or engineers recommendation and must not be bridged by the render or texture coating system.
- › Provide horizontal movement joints at vertical centres corresponding to a storey height or not exceeding 3.6m. The control joint consists of a 10mm gap filled with a closed-cell polyethylene joint filler strip (75mm*10mm) and polyurethane flexible sealant (refer to manufacturer for recommended installation details). The joint filler strip is placed under the RendeX® Panel at the time of installation. Horizontal joints to dissimilar materials, other than those detailed in this Manual should be referred to the respective manufacturer for guidance.
- › Provide vertical movement joints at horizontal centres not exceeding 4.8m. The control joint consists of a 10mm gap, closed-cell 13mm diam. backing rod and polyurethane flexible sealant (refer to manufacturer for installation details). The backing rod is pressed into position after the adjoining RendeX® Panels have been rendered. Vertical joints to dissimilar materials, other than those referenced in this Manual, should be referred to the respective manufacturer for guidance.

PREPARATION FOR RENDER APPLICATION

- › After sheet installation, ensure all washer heads are fastened flush with the surface of the RendeX® base sheets.
- › The RendeX® panels must be clean and free from any impurities which may adversely affect the bond strength of the acrylic textured coating system.

- › Remove any loose, chalky or flakey material by brushing as required.
- › Apply Dri-Patch to taped joints and allow to dry.
- › Install all external angles with Dri-Patch and allow to dry. MAC recommends internal angles be treated as a caulked control joint.

Render & Coating Application

RENDER COAT APPLICATION

- › Apply OB Render to the Rendex® sheet with a 6 mm notched trowel. Overlay with fibreglass mesh and work lightly into the wet render. Ensure mesh is sitting near the render surface, not close to the base sheet surface. Overlap fibreglass mesh junctures by (minimum 100 mm). 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 fibre glass mesh embedded in the first render coat.
- › Apply a second coat of Macrender® HBS ensuring the minimum render thickness has been achieved.

PRIMER COAT APPLICATION

- › Allow rendered surface to cure for a minimum of 4 days prior to priming with a single coat of MACprime. Allow MACprime to completely dry (usually 6 hours) to a non-tacky finish prior to application of finish coats.

FINISH COAT APPLICATION

- › Apply selected trowel-on or roll-on textured finish in chosen colour as per product specific product data sheet. Allow to dry for a minimum 24 hours prior to painting.
- › Apply two coats of MAC Satin 100% acrylic membrane (low sheen or matt) in selected colour. *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 greater than 45%.*

MATERIALS WARRANTY

- › The Rendex® system (including all components other than patching, rendering and coating materials) is covered under the Rendex® system warranty. Contact Rendex® for further details or visit www.prestigewallsystems.com.au
- › When applied in accordance with the above specification, MAC will provide a ten (10) year materials warranty against peeling and delamination not caused as a result of structural and/or substrate movement/breakdown. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure 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/substrate movement or entrapped moisture.

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