ACRYLOC® WALLCOTE™ SYSTEM
for Masterwall X Series® Insulated Cladding System

DESCRIPTION

The Masterwall X Series® cladding system uses M Grade Expanded Polystyrene (EPS) panel to provide a lightweight, energy efficient External Insulation Finish System (EIFS).

The panels are available in a range of thicknesses and offers superior thermal insulation – up to eight times more than brick. This means a reduction in a building's carbon footprint and a reduction in long-term energy costs.

WALLCOTE COATING SYSTEM

The Wallcote System components recommended for use on X Series panels are shown below.

Recommended Components	Notes
Render Coat (essential)	
Wallcote HPS Render	Alkali-resistant fibreglass mesh is encapsulated in the Render Coat Embed mesh and add further render as a 'wet-on wet' coat. A minimum thickness of 6mm of render must be applied
Primer (essential)	
Acryloc Primerbond Masonry Concentrate	Ensures uniform porosity and suction of the render surface and aids adhesion of texture or paint coating to render
(or) Acryloc Rendercoat	
Texture Coating (choose from)	All texture coats are tintable to aid Colour Coat coverage
Acryloc Marblecote Medium	Trowel On & Finish with a Texture Float
(or) Acryloc Eco-Tex Fine or Medium	Trowel On & Finish with a Texture Float
(or) Acryloc Eco-Tex Quartz	Trowel On & Finish with a Texture Float
	All texture coats are tintable to aid Colour Coat coverage
Protective Colour Coat (essential)	
Acryloc Armourflex	Highly Durable, Masonry Matt or Lo Sheen finish, protective Paint coating, tintable to a wide range of colours
(or) Armourflex Extreme	

IMPORTANT REQUIREMENTS

- X Series panels must be installed in accordance with the current version of the X Series System Installation & Construction Detail Manual available at www.masterwall.com.au.
- Frame details and panel fixings must comply with relevant building codes
- Timber framing must comply with AS1684-1992 National Timer Framing Code
- Metal framing must comply with AS3623-1993 Domestic Metal Framing
- All fixings must be non-corrosive and suited to the exposure location.
- Approved Beads & Trims must be fitted to all corners, edges and openings as detailed in the K Series Specifications and designed for a build of 6mm. Trims must be securely fixed, see our separate Technical Bulletin on Beads & Trims
- Raw panels must not be left exposed to weathering as the surface can degrade and this will adversely affect coating adhesion.
- Ensure that the surface is clean, sound, dry and free from contaminants including oil, grease, dust, dirt, silicone, mud, salt, efflorescence, animal droppings and any loose or flaking material.
- Once application of the Wallcote system has occurred, the applicator is taken to have approved the installation and fixing of the panels

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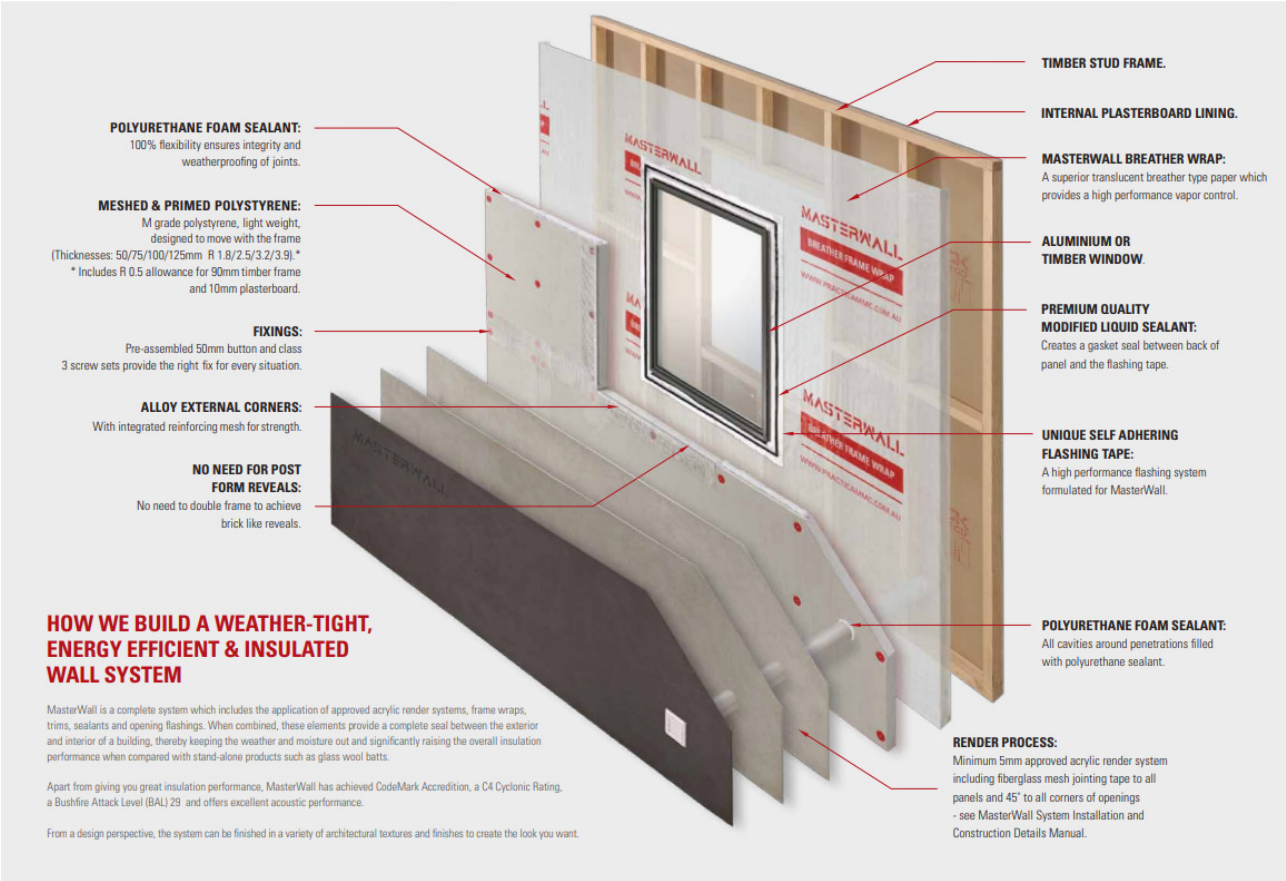

COATING SYSTEM

The primary objectives of the coating system are to weather proof the X Series panels and to provide a durable, attractive finish.

The X Series panels are coated with Wallcote HPS render, applied as a levelling base coat and encapsulating high quality alkali resistant fibre glass mesh reinforcement.

Additional mesh pieces are placed across joints, corners, reveals and diagonally across the corner of window and door openings.

It is essential that the render is in contact with the entire panel surface and that the mesh is fully surrounded or encapsulated by the render. The mesh MUST NOT be directly applied, fixed or glued to the panel. Self adhesive mesh is not suitable for this application.

The final render thickness is determined by the build size of the corner beads and other trims. 6mm Build is required to give the required thickness applied in two coats.

The cement render coat must be primed to ensure even suction to ensure good adhesion and to give even colour.

The selected texture coat, Marblecote or Eco-Tex is then applied to provide an attractive finish with excellent flexibility.

Finally, a medium build protective paint coating, Armourflex Masonry Matt, is applied to give full weather protection, maximum durability and accurate colour.

Important Note: When coating onto X series panel and the surface is exposed to UV (sunlight) even for a few days, the panel surface MUST be thoroughly cleaned to remove any oxidized layer on top of the panel. HPS render will NOT stick to oxidized Expanded Polystyrene. Use a stiff bristled brush and remove oxidized layer by scrubbing panel back to clean foam.

RENDER COAT

Materials required:

- Wallcote HPS Render, 20 kg bags.

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- Alkali resistant fiberglass mesh, 1000mm x 160 gsm, – it is a good idea to cut mesh to size before starting the rendering.

Procedure:

- Prepare the Wallcote HPS Render as per the Wallcote HPS Render Tech Data sheet.
- Surface misalignments and protrusions are to be flushed and feathered out before commencing on broad areas.
- Apply a coat of Wallcote HPS Render to a thickness of 3mm.
- While the render is still wet, embed precut lengths of fiberglass mesh. The mesh must be in single pieces cut to the full height of the section being coated. The fiberglass mesh is applied to all surface areas.
- Ensure that the mesh pieces overlap by a minimum of 100mm.
- Cut the mesh at 45° at the corners of window and door reveals, trim to the size of the reveal and fold around the corner. Add extra mesh around the reveal corners and 300mm by 150mm pieces diagonally across each corner.
- Press the mesh into the render with the edge of the trowel or similar straight edge. The mesh MUST NOT be pushed back all the way through the render to the surface of the panel.
- Trowel and Screed the render coat flat to hold and fully cover the mesh. Apply extra render as required to give at least 3mm thickness over the mesh and to provide a true, level surface with a render coat thickness of at least 6mm.
- As the Wallcote HPS Render begins to set, rub up the surface to eliminate trowel marks and provide a smooth surface for subsequent texture coating.

  Do not render over expansion or control joints.
  Render must not bridge the damp proof course.

A minimum render thickness of 6mm is required over the X Series panels.
A second coat can be added if the first coat is less than the required thickness
At this recommended thickness, coverage should be around 2.5m²/bag.

Wallcote HPS Render must be primed and overcoated with an Acryloc Texture Coating.
Allow a minimum of 24 hours curing time before applying the primer.

PRIMER

The Render Coat must be primed prior to texture coating.

When using Eco-Tex Scratch Texture

- Use Acryloc Rendercoat tinted to the same colour as the Eco-Tex Scratch Texture to prevent the render coat showing through. Apply a single coat at the rate of 9-11 m²/L.
- Allow 45-60 minutes to dry before commencing the texture coat

When using Marblecote, Eco-Tex Fine, Eco-Tex Quartz or Eco-Tex Medium

- Apply a single coat of diluted Acryloc Primerbond Masonry Concentrate at the rate of 13-15 m²/L
- Allow the primer to dry before commencing the texture coat

(Note: Primerbond Masonry Concentrate is supplied as a concentrate which must be diluted 1:1 before use)

(Or)

- Apply a single coat of Acryloc Rendercoat at the rate of 9-11 m²/L
- Allow 45-60 minutes to dry before commencing the texture coat

TEXTURE COATING

- Apply the selected Acryloc Trowel-On texture and follow the appropriate Tech Data Sheet.
- Application must be carried out in a brisk uniform fashion, terminating only when a whole area or section is completely coated, for example, at an expansion joint or corner.

Do not texture over expansion or control joints.

- Acryloc texture coatings should not be extended (spread) too far; otherwise durability &/or hiding power may suffer.

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- Allow minimum 48 hours before commencing the paint coat.
- Coverage depends upon the particle size of the texture coat; Marblecote Medium should give 12-14 m²/pail. Fine texture will give a little more while coarser materials will cover less area.

MEMBRANE COATING

Painting of texture with Acryloc Armourflex is required to fully protect against water ingress, minimize dirt build up on the surface and to extend the life of the coating system. Refer to the appropriate Tech Data Sheet

- Apply Acryloc Armourflex as detailed in the current version of the Tech Data Sheet. Coverage should be 4-6m²/litre for a single coat over texture & 8-10 m²/litre on a flat surface.
- Armourflex Extreme can be used if a full elastomeric membrane is specified. Armourflex Extreme can increase warranty in certain situations. Coverage should be 3-3.5 m²/litre for a single coat over texture & 6-8 m²/litre on a flat surface
- Acryloc Armourflex may require thinning, depending upon the application method used. Up to 1L of clean water may be added to a 15L pail (~6.5%) without the need to apply any extra coats. Thorough mixing is essential.
- Greater than 10% addition is not recommended in a final coat.
- Note: If you paint Eco-Tex Quartz, you will loose the “sparkle” effect. Armourflex Clear Coat is available for this application.

WARRANTY

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law and the benefits provided by our warranty are in addition to other rights and remedies available to the consumer under the law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

In addition to these legal requirements, Acryloc Building Products provides a material replacement warranty against peeling or flaking of the full Wallcote™ System caused by any defect in manufacture for a period of ten years when applied correctly by a skilled and experienced applicator in accordance with all current application criteria, including but not limited to, substrate type and preparation, application rates and methods, prevailing weather conditions and protection of finished work.

Acryloc Building Products provides no warranty, expressed or implied, against damage due to movement of the substrate or structure and Acryloc Building Products cannot accept responsibility for variations in colour, strength, appearance or workability resulting from on-site mixing procedures and conditions.

To claim under this warranty, contact us by phone, mail, or through the ‘contact us’ facility on our website (see the contact information below), and give details of the claim, including your contact details. Proof of purchase is required and we reserve the right to inspect the affected property at our cost.

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