ACRYLOC® WALLCOTE™ SYSTEM
for NRG Greenboard

DESCRIPTION

NRG Greenboard™ is an insulative walling system suitable for external cladding of timber or steel framed buildings as well as solid concrete and masonry walls. The system provides a weather resistant, seam free textured finish in a wide range of colours. The coating system components described in this document have been approved by NRG for use in BAL29 areas in accordance with their CodeMark™ Certified system.

WALLCOTE COATING SYSTEM

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

Recommended Components	Notes
Render Coat (essential)	
Wallcote HPS Render	Alkali-resistant fiberglass mesh is encapsulated in the Render Coat, Embed mesh and add further render as a 'wet-on wet' coat. A further render coat may be applied if desired but a minimum thickness of 6mm of render is required for BAL 29 compliance.
Primer (essential)	
Acryloc Primerbond Masonry Concentrate (or) Acryloc Primerbond Rendercoat	Ensures adhesion of texture or paint coating to render and even absorption for colour uniformity
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 (for ten year warranty)	Two coats recommended
Acryloc Armourflex (or) Armourflex Extreme	Highly Durable, Masonry Matt or Lo Sheen finish, protective Paint coating, tintable to a wide range of colours

INSTALLATION NOTES

- NRG boards must be installed as per the current edition of the supplier's Technical manual and related documents. Info at www.nrggreenboard.com
- Frame details and panel fixings must comply with relevant building codes and must be in accordance with the manufacturer's specification.
- Timber framing must comply with AS1684-1992 National Timer Framing Code
- Metal framing must comply with AS3623-1993 Domestic Metal Framing
- All exposed corners of the NRG boards must be protected with approved 6mm build PVC beading.
- Raw panels must not be left exposed to weathering as the surface can degrade and will adversely affect coating adhesion.
- Once application of the Wallcote system has occurred, the applicator is taken to have approved the installation and fixing of the boards
- Application methods and processes should be agreed by the client, preferably with approval of a site sample
- 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.

The information provided herein is considered correct at the time of publication. It is the responsibility of those using this information to check that it is current prior to specifying or using any of the products or coating systems. Any advice, recommendation or information provided by any of the officers of Acryloc Building Products in relation to goods manufactured by it for their use and application, is given in good faith and is believed by Acryloc Building Products to be appropriate and reliable. However, this advice, recommendation and information is provided without liability or responsibility without excluding or limiting responsibility under relevant Government acts. Acryloc and other marks followed by the symbol ® or ™ are trademarks.

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COATING SYSTEM

- The primary objectives of the coating system are to weather proof the NRG Greenboard panels and to provide a durable, attractive finish.
- Wallcote HPS Render is applied as a levelling base coat. High quality alkali resistant fibre glass mesh pieces are normally placed around corners and reveals, across joints, and diagonally across the corner of window and door openings, as well as being embedded in the broad wall render.
- It is essential that the fresh 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 surface. 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 wet-on-wet in two coats. First coat ~4mm, Second coat ~2mm.
- A further render coat is applied to maintain a minimum thickness of 6mm.
- The cement render coat must be primed to ensure even suction, ensuring good adhesion and even colour.
- The selected texture coat from the Acryloc range is then applied to provide an attractive finish with excellent flexibility.
- Finally, a medium build protective paint coating, Armourflex Masonry Matt or Low Sheen, is applied to give full weather protection, maximum durability, accurate colour & Ten Year Warranty.

Important Note: When coating onto NRG 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.
- 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.

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A minimum render thickness of 6mm is required over NRG Greenboard. A further render 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 Trade Render must be primed and overcoated with a 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.

- Apply a single coat of diluted Acryloc Primerbond Masonry Concentrate at the rate of 13-15 m²/L

(or) Apply a single coat of Acryloc Primerbond Rendercoat at the rate of 9-11 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)

TEXTURE COATING

- Apply the selected texture as per the current version of the product 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 a natural break, expansion joint or corner. Do not texture over control joints.
- The texture coating should not be extended (spread) too far; otherwise durability and hiding power may suffer.
- Allow 24 hours before commencing the paint coat.

PROTECTIVE PAINT COATING

No further primer is required if painting freshly applied texture. Painting 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. Apply Acryloc Armourflex as detailed in the current version of the Tech Data Sheet. Coverage should be 4-6m²/litre per coat over Medium texture.

Acryloc Armourflex can be tinted to wide range of colours. However, only colours with a Light Reflectance Value greater than 35% should be used with NRG Greenboard™ to protect the integrity of the coating system.

Light Reflectance Value is a measurement that indicates how much light of all wavelengths a color reflects, and conversely how much it absorbs.

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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