ACRYLOC® WALLCOTE™ SYSTEM
for Nasahi® Lightweight AAC Masonry Panels

DESCRIPTION

Nasahi® is a lightweight masonry panel made from Autoclaved Aerated Concrete (AAC).

Nasahi® provides a cost effective, durable walling system for residential and commercial applications.

AAC has different characteristics to conventional masonry because of the small and finely dispersed air pockets within the material and it is essential that a purpose designed render is used as part of the coating system.

Wallcote Trade Render has been formulated for use on Nasahi® panels and is the basis of a system which provides water resistance, vapour permeability and the flexibility to resist surface cracking.

WALLCOTE COATING SYSTEM

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

Recommended Components	Notes
Render Coat (essential)	
Wallcote Trade Render	Alkali-resistant fibreglass mesh is encapsulated in the Render Coat High build, cement based render, add Liquid Bond to mix water. Designed as a Base Coat for use with Nasahi®
Primer (essential)	
Acryloc Primerbond Masonry Concentrate (or) Acryloc Rendercoat	Ensures uniform porosity and suction of the render surface and aids adhesion of texture coating.
Texture Coating (choose from)	
Acryloc Marblecote Medium	Trowel on and finish with a Texture Float
(or) Acryloc Eco-Tex Fine or Medium	
(or) Acryloc Allegro Medium	All texture coats are tintable to aid Paint coating coverage
Protective Colour Coat (essential)	
Acryloc Armourflex	Highly Durable, Masonry Matt finish, protective Paint coating, tintable to a wide range of colours

INSTALLATION NOTES

- Nasahi® panels must be installed in accordance with the current version of the Nasahi® Design and Installation Manual.
- Frame details and panel fixings must comply with relevant building codes
- Timber framing must comply with AS1684-2010 Residential Timber-Framed Construction
- Metal framing must comply with AS3623-1993 Domestic Metal Framing
- 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.
- Surface misalignments and protrusions are to be trimmed back, all joints and voids should be pre-filled using Nasahi® Adhesive.
- Any wires, nails, staples or steel on the surface must be completely removed and exposed reinforcement bars must be treated with appropriate Nasahi® corrosion protection paint in accordance with the Nasahi® Design and Installation Manual.
- 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 Nasahi® panels, in particular to prevent water ingress through the panel and to allow water vapour in and out.

Minimum requirements have been set by Nasahi® Australia and these requirements are met or exceeded by this specification. In particular, the full render, texture and paint system has the elasticity to bridge cracks of at least 1mm.

The Nasahi® panels are coated with a high build Portland cement-based render, Wallcote Trade, applied as a levelling base coat no less than a 4mm thick coat to provide crack resistance.

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

The selected texture coat is then applied to provide an attractive finish with excellent flexibility.

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

RENDER COAT

Materials required:

- Wallcote Trade Render, 20 kg bags. Acryloc Liquid Bond, 5L bottle or 20L drum

Procedure:

The Nasahi® surface should not be saturated nor very dry, so as to provide a medium suction.

- Prepare the Wallcote Trade Render as per the relevant Tech Data sheet with the addition of Liquid Bond to the mixing water at the rate of 300mL per bag of render.
- Apply a coat of Wallcote Trade Render to a thickness of at least 4mm.
- As the Wallcote Trade Render begins to set, rub up the surface to eliminate trowel marks and provide a smooth surface for subsequent primer coat.

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

A single coat of 4mm thickness is sufficient for Nasahi® panels. No mesh embedment is required on this spec providing coating procedure is followed. At this recommended thickness, coverage should be around 3m²/bag.

Wallcote Trade Render must be overcoated with an Acryloc Texture Coating.

Allow a minimum of 24 hours curing time before applying subsequent coats.

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 12-14 m²/L.
- Allow 45-60 minutes to dry before commencing the texture coat

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

- Apply a single coat of diluted Acryloc Primerbond Masonry Concentrate at the rate of 13-15 m²/L
- Allow 45 minutes to dry before commencing the texture coat

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

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TEXTURE COATING

- Apply the selected Acryloc Trowel-On texture as detailed in 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 and hiding power may suffer.
- Allow 24 hours before commencing the paint coat.
- Coverage depends upon the particle size of the texture coat; Marblecote Medium should give 12-14m²/pail. Coarse texture will give a little less while finer materials will cover more area.

PAINT COATING

Painting of texture with Acryloc Armourflex is essential to fully protect against water ingress, to provide the full crack bridging pefromance, to minimize dirt build up on the surface and to extend the life of the coating system.

- Apply Acryloc Armourflex at the rate of 4-6m²/litre as detailed in the current version of the Tech Data Sheet.

Clean-Up

Clean up all Wallcote System materials with water.

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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