

**COATING SYSTEM SPECIFICATION: MCS-180614-1**

# STYRO PANEL

## Basecoat & Acrylic Textured Finish

### STYRO PANEL

The STYRO PANEL® panel has a lightweight core of Portland cement and expanded polystyrene bead aggregate, sandwiched between non-asbestos, fibre cement facings.

STYRO PANEL® panels can be used for walls, roofing, flooring, internal partitions (including fire-rated partitions), prefabricated and relocatable buildings. They can be used as load-bearing walls in single and two storey buildings or for higher structures if special engineering factors are considered.

### MATERIALS REQUIRED

- > Macprime HP / Macbond diluted 50:50 with water for priming face of panels if unprimed
- > Macpatch Coarse for setting joints and external angles (with addition of 5-10% cement by weight)
- > Macpatch Coarse plus Macrender at 1:2.5 ratio for skimcoat
- > Alkali-resistant fibreglass reinforcing tape 60 mm
- > Mactexture Trowel-on (3060/1140/Crystal)
- > MAC Satin acrylic membrane topcoat

### APPLICATION SCHEDULE - IN ORDER OF APPLICATION

PRODUCT	PURPOSE	SPREAD RATE / FILM THICKNESS	NOTES
<i>Macprime HP</i>	<i>Fortifies surface, reduces suction, provides barrier against moisture ingress and improves render-coating adhesion.</i>	<i>Approx. 5.5 m<sup>2</sup> / litre</i>	
<i>Macpatch Coarse + Portland cement (For joint reinforcement and external angle installation)</i>	<i>Provides reinforcement of Styropanel joints when used in conjunction with alkali resistant FG tape</i>	<i>Apply MACpatch Coarse to joint. Embed FG mesh into wet jointing material. Trowel over to ensure 100% immersion.</i>	<i>Add 5-10% GP cement to improve tensile strength and weather resistance.</i>
<i>Macpatch Coarse + Macrender (1:2.5 mix ratio)</i>	<i>Used to skim over entire sheet surface to bring to a smooth and level finish.</i>	<i>Depends on application thickness.</i>	<i>Float to a finish suitable for application of selected textured finish.  May require 2 thin coats.</i>
<i>Mactexture acrylic trowel-on/roll-on textured finish</i>	<i>Provides even textured appearance to rendered surface.</i>	<i>Between 0.6 - 1.3 m<sup>2</sup>/litre depending on selected grade.</i>	<i>Apply as per product specific Technical Data Sheet.</i>
<i>Satin acrylic (low sheen or matt)</i>	<i>Improves resistance to moisture ingress, fading and dirt pick-up. Also provides limited crack-bridging ability.</i>	<i>Approx. 4 m<sup>2</sup> / litre.</i>	<i>2 coats required.</i>

### SURFACE PREPARATION

- > Styropanel should be installed as per manufacturers technical documentation.

- > All surfaces must be clean and free from any impurities which may adversely affect the bond strength of jointing systems, renders and applied finishes.
- > Any exposed horizontal surfaces must have the Styropanel installed with a minimum 10 degree fall to facilitate drainage of water and elimination of ponding.
- > Prime entire surface with Macprime HP and allow to hard dry (i.e. surface not tacky to the touch).

#### SETTING JOINTS

- > Apply Macpatch Coarse (with addition of 5-10% GP cement) to the rebated joint and embed 60 mm alkali resistant fibreglass reinforcing mesh into the wet material. Trowel over with another skim coat of Macpatch Coarse + cement, ensuring reinforcing mesh is fully embedded and not visible. The use of self adhesive reinforcing tape for setting joints is not acceptable.
- > Try to keep joints as flush with the surface as possible to reduce the risk of ridges along the joints in the finished coating.

#### EXTERNAL ANGLES

- > Trowel Macpatch Coarse (with addition of 5-10% GP cement) into the rebated section of each face and embed a fibreglass reinforcing angle using the same method as described above. The use of self adhesive reinforcing tapes is not permitted.
- > Alternatively, fasten an aluminium external angle bead to the cement sheet and fill rebate with either Macpatch Coarse (with addition of 5-10% GP cement) until flush.
- > The use of plastic beads and trims is not recommended due to their tendency to buckle and ultimately delaminate in certain conditions.

## Application of Skim Render System

#### APPLICATION OF LEVELLING SKIM-COAT

- > Clean surface thoroughly, ensuring all contaminants are removed from the surface prior to rendering.
- > Apply Macpatch Coarse + Macrender mix (1:2.5) to the panels at a thickness of approximately 2 - 3 mm and float to a sufficiently smooth finish.
- > Apply a second thin coat of Macpatch Coarse + Macrender, only if a suitable finish has not been achieved with a single coat. Keep in mind that only very small irregularities in the Macpatch finish can be taken up with the application of a textured decorative coating. The quality of the textured finish will always be a direct reflection of the quality of the base coat.
- > Control and movement joints must be constructed, positioned and caulked as per Styropanel manufacturer's or engineer's recommendations and must not be bridged by the render or textured finish. Allow rendered surface to cure for a minimum of 24 hours prior to overcoating or until full dry.
- > Macpatch Coarse + Macrender should not be applied in thicknesses exceeding 5 mm per coat as through-drying may be difficult to achieve in cool or moist conditions or over surfaces with low porosity.

#### FINISH COAT APPLICATION

- > Apply selected trowel-on 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. If a membrane finish is required, this stage is optional.
- > Apply two coats of MAC Satin acrylic membrane (low sheen or matt) in selected colour. Avoid dark colours to limit the possibility of thermal expansion of the Styropanel base sheet. Select colours with LRV > 45%. Excessive expansion and contraction of the base sheet caused by heating and cooling may eventually lead to joint fracturing.

#### 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/substrate movement. See warranty for details.

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**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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