

Specification for the Installation of 2400mm x 1200mm x 2mm Slate-lite Fiberglass backed Tile to Fibre-cement board Substrate Internal Walls

Brymac Tiles Christchurch

1. PRIMER

a. Trade Name: [Primer 3296](#)

An acrylic primer in water dispersion with strong penetrating action for consolidating porous surfaces and unsound screeds.

2. WATERPROOFING

a. Trade Name: [Mapelastic AquaDefense](#)

In compliance with Section 3-1-1(B) of E3-ASI of the New Zealand Building Code. BRANZ Appraisal Certificate No. 484 (2013) Internal Waterproofing Membrane. One Component Flexible Ultra-fast Drying Waterproofing Membrane.

b. Trade Name: [Mapeband SA](#)

A self-adhesive butyl tape with alkali-resistant non-woven fabric for elastic waterproofing systems for waterproofing expansion joints in interiors and exteriors, corners between adjacent walls and walls & floors and sealing of pipes and drains.

c. Trade Name: [Adesilex T Super](#) or [Adesilex LP](#)

Low solvent Contact adhesives for bonding Mapeband, Mapeband corners and Mapeband gaskets.

d. Trade Name: **Mapeband Gasket**

A blue coloured rubber-coated alkali resistant gasket for the sealing of pipes and drains.

3. ADHESIVE

a. Trade Name: [Keralastic T](#)

RT2 class adhesive in compliance with EN 12004 Standards

A two-component high performance polyurethane adhesive for ceramic tiles and stone materials

4. GROUT (2 options)

a. Trade Name: [Ultracolor Plus](#)

CG2WA class grout in compliance with EN 13888 Standards

A rapid setting and drying, anti-efflorescence, water repellent, mould resistant, polymer modified for joints from 2 to 20mm with excellent compressive strength. 30 colours with matching silicone.

b. Trade Name: [Kerapoxy](#)

RGRT2 class grout in compliance with EN 13888 Standards

A two component, acid resistant, epoxy grout. 23 colours with matching silicone.

5. SILICONE SEALANT

a. Trade Name: [Mapesil AC](#)

A solvent free, mildew resistant, silicone sealant with 30 colours to match grout.

b. Trade Name: [Primer FD](#)

One-component silicone resin based neutral primer for priming joints prior to the installation of Mapesil AC and Mapesil LM.

6. Deflection Criteria

- a. It is essential that the deflection criteria for both the substrate and the supporting structure or framing are met to a maximum of L over 360 under live or dead loading. As per BRANZ Good Practice Guide to Tiling Section 2.12.

7. Tolerances

- a. Maximum variation in the plane of the substrate should be no greater than ± 4 mm in 2 lm. as per BRANZ Good Practice Guide to Tiling Section 2.13

8. Fibre-cement Board Substrate

- a. The substrate should be free of all dust, oil, wax, paint or other surface contaminants before the commencement of the Porcelain Tile installation.
- b. The fibre-cement board must be fixed in strict accordance with the manufacturer's installation instructions and be warranted by the manufacturer for its intended end use, including relevant tile weight limitations.
- c. Sheet joints and screw heads must be flush filled with a suitable stopping compound.

9. Installation

- a. **It is good tiling practice when dealing with natural stone products that a small section of tiling is installed and then checked to ensure the surface colour is not affected by the stone being stain sensitive to the adhesive being used.**
- b. After suitable preparation of the substrate, prime with Primer 3296 diluted 1 to 2 with water.

- c. Upon suitable curing of the Primer 3296, installation of the waterproofing can be carried out using Mapelastic AquaDefense in conjunction with Mapeband SA and Mapeband gaskets.
- d. Mapeband gaskets should be applied to all drains, inlets and outlets.
- e. Mapelastic AquaDefense must be applied to a minimum finished dry film thickness of 0.8mm.
- f. Upon satisfactory curing of the waterproofing membrane, installation of the tile can then be carried out using Keralastic T.
- g. It is recommended that the selected adhesive be applied to the substrate using an 6mm 'V' notch trowel and with a 4mm 'V' notch trowel being used to apply the adhesive to the back of the Ultra-Thin Porcelain Tile notwithstanding a 100% contact of the adhesive bed to the ceramic tile is required, as per the BRANZ Good Practice Guide to Tiling, Section 10.11.10.
- h. It is recommended that over a non-porous substrate, Keralastic T be allowed to cure for 3 days prior to grouting.

10. Grouting

- a. Upon satisfactory curing of the adhesive, grouting can be commenced using Ultracolor Plus at a minimum of 2mm joint width or Kerapoxy Grout at a minimum width of 3mm.

11. Movement Joints

- a. In general, movement or control joints must be installed at the perimeter of all tiled areas, where the tile surface abuts another material, at changes of plane, where joints exist in the substrate and at maximum centres of 3.6 m in each direction.
- b. Notwithstanding this discussion with structural engineers is essential to address the elements pertinent to the individual situation, ensuring the correct installation of movement and construction joints.
- c. Installation of the silicone sealant is to be carried out using Mapesil AC. Joints are to be primed using Primer F.D. before the installation of Mapesil AC.

12. Warranty

- a. Please note the above products must be installed to MAPEI recommendations as detailed in our Technical Data Sheets relative to each of the products named above.
- b. Installed to our Specifications, Mapelastic AquaDefense carries a 15 Year Product Performance Warranty.
- c. Refer specification section 1237 on the warranty requirements NZS 3910.

- d. Furthermore the above Specification is based on the information provided. MAPEI will accept no responsibility to the accuracy of the information provided as it relates to the correctness of this Specification and in particular as it relates to pre-existing conditions that are found on the job site.

- e. A full list of all product warranty terms and conditions are available upon request.

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