

# PRODUCT SPECIFICATION

<b>Product System:</b>	<b>Specification for the Installation of Ceramic and Porcelain Tiles to Magnum Board including Waterproofing - Internal Floors</b>
<b>Project Reference:</b>	<b>Health Based Building</b>
<b>Site Address:</b>	<b>TBA</b>
This Specification is intended for the above-listed products and all products must be installed in accordance with this product specification and the Technical Data Sheet (TDS) of the products listed herewith.	

## 1. PRIMER

a. **Trade Name:** [Eco Prim Grip](#)

Multi-purpose, ready-to-use bonding promoter primer with a very low emission of volatile organic compounds (VOC) for render, smoothing and levelling compounds and adhesives for ceramic tiles.

## 2. WATERPROOFING (where required)

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.**

A ready-to-use, ultra-fast drying, flexible, liquid waterproofing membrane for internal and external waterproofing applications.

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:** **Self-Adhesive Mapeband Gasket SA**

A self-adhesive butyl tape with alkali-resistant non-woven fabric for elastic waterproofing for the sealing of pipes and drains.

## 3. ADHESIVE

a. **Trade Name:** [Keraflex Maxi S1](#)

**C2TES1 class adhesive in compliance with EN 12004 Standards**

A high performance, deformable, cementitious, floor and wall adhesive, with improved slip resistance and extended open time.

The information in this Specification is consistent with the information given in the Product Technical Data Sheets (TDS). If further information is required, MAPEI recommends referring to the Product TDS, or seeking advice from MAPEI NEW ZEALAND LTD.

The information given in this Specification relating to the application and use of MAPEI products is given in good faith based on MAPEI's current knowledge and experience of the product when appropriately stored, handled and applied under recommended conditions as per the information in the Product TDS. In practice, the difference in application conditions, substrates, materials, and site environments are such that no guarantee in respect of consumption, or fit for a particular purpose can be concluded either from the information given in this specification, or any other written or verbal recommendations. The Applicator of the product must assess the substrate and the product's suitability for the intended application and final service provision of the product or product system.



#### 4. GROUT

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

**CG2WA class grout in compliance with EN 13888 Standards.**

A rapid setting and drying grout, anti-efflorescence, water repellent, mould resistant polymer modified for joints from 2mm to 20 mm with excellent compressive strength. 34 colours with matching silicone.

#### 5. SILICONE SEALANT

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

A solvent free, mildew resistant, silicone sealant with 34 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  $\pm 4$ mm in 2 lm as per BRANZ Good Practice Guide to Tiling Section 2.13.

#### 8. Magnum Board Substrates

- a. The substrate must be dry and free of all dust, paint or other surface contaminants before the commencement of the ceramic tiling.
- b. The Magnum Board must be fixed in strict accordance with the manufacturer's installation instructions and be warranted by the substrate manufacturer for its intended end use, including consideration for a rigid joint detail.
- c. Sheet joints and countersunk screw head voids must be flush filled with a suitable stopping compound.

#### 9. Mechanical Support (if required)

- a. A mechanical support ('L' angle) designed to hold loads of up to 80kg/m<sup>2</sup>, made of durable quality metal fit for the intended purpose, must be fixed horizontally at no greater than 3.0lm intervals. Refer to a structural engineer for the correct mechanical support design.

**NOTE: "ABEP Flash 'N' Wrap to be applied between L Angle and the Magnum Board.**

#### 10. Installation

- a. Prime the suitably prepared Magnum board with Eco Prim Grip neat.
- b. Upon suitable curing of the Primer, installation of the waterproofing can be carried out using Mapelastc AquaDefense in conjunction with Mapeband SA and Mapeband SA Gaskets.
- c. Mapeband SA Gaskets should be applied to all drains, inlets and outlets.

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- d. Mapelastic AquaDefense must be applied to a minimum finished dry film thickness of 0.8mm.
- e. Once the waterproofing has cured the installation of the tiles can be carried out using Keraflex Mxi S1.
- f. Depending on the size of the tile being used a 8mm or 10mm ‘V’ notched trowel is the recommended size notwithstanding a 100% contact of the adhesive bed to the ceramic tile is required. Consideration should be given to using the double spread (back-buttering) method of installation to achieve a solid adhesive bed as per BRANZ Good Practice Guide to Tiling, Section 10.11.10.

### 11. Grouting

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

### 12. 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 3.0 lm 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 is to be carried out using Mapesil AC Silicone Sealant. Joints are to be primed using Primer F.D. before the installation of Mapesil

### 13. Warranty

- a. MAPEI NEW ZEALAND LTD (MAPEI NZ LTD) provides product warranties, if the products are installed in accordance with the products Technical Data Sheet (TDS) plans, specifications, and complies with the relevant provisions of the New Zealand [building code](#).
- b. MAPEI NZ LTD warrants that the product/s when prepared and applied in accordance with the TDS will have the properties and characteristics set out in the TDS and will retain these properties and characteristics for the duration of the listed Warranty Period.
- c. The Applicator of a MAPEI product is not an agent or employee of MAPEI and therefore MAPEI takes no responsibility and assumes no liability for their workmanship.
- d. The applicator of the product must assess the substrate and the product/s suitability for the intended application and final service provision of the product.
- e. MAPEI NZ LTD warranties ***do not*** cover installation, workmanship or product mixing and preparation aspects which are the sole responsibility of the applicator who is not an officer, agent, servant, or employee of MAPEI NZ LTD.
- f. It is the sole responsibility of the product applicator to store the product/s, prepare the substrate, prepare, mix, and apply the product/s in accordance with the product/s TDS.
- g. Information given relating to the application and use of MAPEI products is given in good faith based on MAPEI’s current knowledge and experience of its products when they are appropriately stored, handled and applied under recommended conditions according to the information in the product/s TDS.

**h.** A full list of all product warranty terms and conditions is available upon request.

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