

PRODUCT SPECIFICATION

Product System:	Generic Specification for the Installation of Ceramic or Porcelain Tiles to 9mm Villaboard Substrates – Shower Walls in Conjunction with Atlantis Bases
Project Reference:	
Site Address:	
This Specification is intended for the above listed products and all products must be installed in accordance to this product specification and the Technical Data Sheet (TDS) of the products listed herewith.	

1. PRIMER

- a. **Trade Name:** [Primer 3296](#)
An acrylic primer in water dispersion with strong penetrating action for consolidating porous surfaces.

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 \(2018\)](#) 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.

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 (2 options)

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. 32 colours with matching silicone.

b. Trade Name: [Kerapoxy](#)

RGRT2 class grout in compliance with EN 13888 Standards

A two component, acid resistant, epoxy grout for joints from 3mm in width. 20 colours with matching silicone.

5. SILICONE

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

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. Villaboard Wall Substrates

- a. The substrate must be dry and free of all dust, paint or other surface contaminants before the commencing the installation.
- b. The Villaboard 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 considerations for a rigid joint detail.
- c. Sheet joints and counter sunk screw head voids must be flush filled with a suitable stopping compound.

9. Installation

- a. After suitable preparation of the substrate, prime with Primer 3296 diluted one part primer with two parts water.

- b. Upon satisfactory curing of the primer, installation of the waterproofing can then be carried out using Mapelastic AquaDefense, with Mapeband SA bandage to all movement junctions and Mapeband or Mapeband SA gaskets to all drains, inlets, and outlets.
- c. In the shower areas Mapeband SA bandage should be used to seal the junction between the Atlantis shower tray and the Villaboard wall lining prior to being applied with the AquaDefense waterproof membrane.
- d. The Mapelastic AquaDefense must be applied in a two coat application to a minimum finished dry thickness of 0.8mm.
- e. Upon satisfactory curing of the waterproofing membrane, installation of the tile can then be carried out using Keraflex Maxi S1.
- f. Depending on the type of tile being used an 8 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 use the double spread (back-buttering) method of installation to achieve a solid adhesive bed, as per the BRANZ Good Practice Guide to Tiling, Section 10.11.10.

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, a minimum 5mm movement or control joint 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 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 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. Limited Warranty

- a. MAPEI NEW ZEALAND LTD (MAPEI) warrants that when MAPEI products are prepared, applied and installed in accordance with the products' Technical Data Sheet (TDS) plans, specifications, as well as with the relevant provisions of the New Zealand building code, the products will have the properties and characteristics set out in the TDS and will retain these properties and characteristics for the duration of the Warranty Period listed under the relevant MAPEI product warranty.
- b. MAPEI's warranties are limited to its products, and **do not** cover installation, workmanship or product mixing and preparation aspects. It is the sole responsibility of the applicator of the products to assess the substrate and the product/s' suitability for the intended application and final service provision of the product.

- c. A full list of all MAPEI product warranty terms and conditions is available upon request.

13. No Responsibility

- a. 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 or their use of the product in inappropriate circumstances or surfaces.
- b. Where expressly agreed with you in writing, MAPEI's representatives may supervise the preparation of MAPEI products to ensure that the preparation meets the products' specifications, on the basis that MAPEI does not take any responsibility for such supervision, as well as for:
 - a. any failure to apply the product in accordance with any relevant specifications, standards, regulation or similar; and
 - b. the use of the product in inappropriate circumstances or on inappropriate (or inappropriately prepared) surfaces; and
 - c. the workmanship of the applicator of the product,even if our representatives are present at the time of application.

Any guidance MAPEI's representatives provide during their supervision will not modify any express manufacturers' warranty or product warranty relating to the relevant MAPEI products.

- c. MAPEI provides product information, including this specification, on a non-reliance basis. All information and proposals are given in response to the information provided to us. MAPEI is not liable for the assessment of whether the products and methodologies are suitable for your particular circumstances or whether they meet the requirements of the NZ Building Code or other regulatory requirements. This assessment and decision whether or not to use the products must be made by you.

14. Consumer Guarantees

- a. Nothing in this Specification is intended to modify or negate a consumer's rights and remedies under the Consumer Guarantees Act 1993.
- b. In the event of inconsistency between the provisions of this Specification, our Terms of Trade and the relevant manufacturers' or product warranty, the order of priority set out below will apply (with (a) having the highest priority):
 - a. MAPEI Terms of Trade;
 - b. Manufacturer's or product warranty;
 - c. This Specification.