

Product System:	Installation of Moisture Stable Natural Stone to Eterpan Cement Board with Waterproofing - External
Project Reference:	Island Stone NZ and The Natural Stone Co
Site Address:	Generic – For site-specific specification contact Island Stone, The Natural Stone Co or MBP NZ LTD
This Specification is intended for the above listed situation, and all products must be installed in accordance to this product specification and the Technical Data Sheet (TDS) of the products listed herewith. All products listed are hyperlinked to the product page.	

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 Smart](#)
[BRANZ Appraisal Certificate No. 485 \(2018\)](#) External Waterproofing Membrane.
 A two component, flexible, tanking membrane.
- b. **Trade Name:** [Mapeband SA](#)
 A self-adhesive tape with alkali resistant non-woven fabric for elastic waterproofing systems.
- c. **Trade Name:** [Mapenet 150](#)
 An alkali resistant fibreglass mesh used in reinforcing protective waterproofing.

3. ADHESIVE

- a. **Trade Name:** [Kerabond Plus](#) & [Isolastic](#) mixing ratio 100% Isolastic
C2TES2 class adhesive in compliance with EN 12004 Standards
 A two component, highly deformable, cementitious, floor and wall adhesive with no vertical slump and extended open time.

4. SILICONE

- a. **Trade Name:** [Mapesil LM](#)
 A solvent free, mildew resistant, silicone sealant with 9 colours to match grout.

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

The information given in this Specification relating to the application and use of MAPEI products is given in good faith based on MBP (NZ) LIMITED'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.

5. 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.

6. Tolerances

- a. Maximum variation in the plane of the substrate should be no greater than $\pm 4\text{mm}$ in 2 m as per BRANZ Good Practice Guide to Tiling Section 2.13.

7. Cement Board Substrates

- a. The substrate must be dry and free of all dust, paint or other surface contaminants before the commencing the installation.
- b. The cement 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 considerations for a rigid joint detail. Substrate must also be rated by the manufacturer as suitable to withstand the weight of the stone.
- c. Sheet joints and counter sunk screw head voids must be flush filled with a suitable stopping compound.

NOTE: Mechanical Support (if required)

It is advisable to use mechanical fixings, such as metal angles or pin fixings, where the tile/stone is to be applied at a wall height exceeding 3 m above the ground or when the stone/tile mass is greater than 32 kg/m^2 . The 32kg/m^2 refers to the weight the adhesive can hold whilst it is curing. Refer to a structural engineer for the correct mechanical support design. **It is recommended that any mechanical fixings should be dressed using Mapeband SA and coated with Mapelastic Smart.**

8. Installation.

- a. Once the substrate has been suitably prepared, prime the substrate using Primer 3296 diluted 1:2 with water. Once the primer has dried in approx 20-30 mins install the Mapeband SA at all changes in plane and expansion joints. Joins in the Mapeband SA bandage must be no less than 50mm overlap. Internal and external corners are formed on site. Use a small penny roller to remove any air pockets from the Mapeband SA bandage and gasket and to ensure an even bond to the substrate.
- b. Once all the detailing is completed with the Mapeband SA bandage, installation of the Mapelastic Smart can commence.
- c. The Mapelastic Smart must be mixed in the ratio as supplied as per the 20kg powder and 10kg liquid. If part mixing is necessary, the products must be weighed 2-parts Mapelastic Smart Part A powder and 1-part Mapelastic Smart Part B as per the product datasheet.

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- d. After the initial mixing of the Mapelastic Smart the mixture must be left to slack for 5 minutes and then re-mixed prior to being applied.
- e. Apply the Mapelastic Smart to cover the Mapeband SA bandage and Mapeband SA gasket using a heavy nap roller, trowel or brush, then apply the Mapelastic Smart to the substrate using a flat bladed trowel, then immediately use a 6mm notch trowel to gauge the thickness of the membrane.
- f. Once the membrane is notched immediately lay the Mapenet 150 mesh over the notched membrane and immediately back-trowel to encapsulate the Mapenet 150 into the Mapelastic Smart to achieve the 1st 1mm of thickness of the membrane. Any laps in the Mapenet 150 must be minimum of 50mm.
- g. The Mapenet 150 must not be fitted over or under the Mapeband SA bandage. Once the first coat of the membrane has dried install the second 1mm coat with a trowel, brush or roller. Dependent on the ambient and substrate temperature the 2nd coat can be applied after the 1st coat has dried for 6 to 8 hours.



- h. The final dry film thickness of the Mapelastic Smart must be no less than 2mm.
- i. Mapelastic Smart must be protected from rain for 24 hours after each coat.
- j. Upon 5 days curing of the Mapelastic Smart, installation of the stone can then be carried out using Kerabond Plus mixed with 100% Isolastic. Dependent on the type and module size of the stone being used a 12mm or larger notched trowel should be used notwithstanding that there must be 100% contact of the adhesive bed to the tile required. To this end the stone must be 'back buttered' to ensure a 100% coverage of adhesive to the back of the stone tiles.

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9. Movement Joints

- a. In general, movements 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 is essential to address the elements pertinent to the individual situation, ensuring the correct installation of movement and construction joints.
- c. Installation to be carried out using Mapesil LM Silicone Sealant.

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1. 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.

2. 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.

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3. 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.

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