

Product System:	Installation of Moisture Stable Stone to Solid Filled Concrete Block Walls including Waterproofing – External
Project Reference:	Island Stone NZ and The Natural Stone Co
Site Address:	Generic – For a site-specific specification please contact Island Stone 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. LEVELLING MORTAR (Required if the walls are not flush pointed or uneven - 2 options)

a. Trade Name: [Planitop Fast 330](#)

GP-CS IV class rendering and plastering mortar in compliance with European Standard EN 998-1

A quick setting, fibre reinforced cementitious mortar for internal and external floors and walls, applied at thicknesses from 3mm to 30mm to smooth out irregularities.

b. Trade Name: [Planitop Smooth and Repair R4](#)

R2-class, rapid-setting shrinkage-compensated, thixotropic, fibre-reinforced, cementitious mortar applied in a single layer from 3 to 40 mm thick, for repairing and smoothing concrete.

2. PRIMER

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

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

3. WATERPROOFING

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

In compliance with Section 3-1-1(B) of E3-ASI of the New Zealand Building Code.

[BRANZ Appraisal Certificate No. 484](#) Internal Waterproofing Membrane.

[BRANZ Appraisal Certificate No. 485](#) External Waterproofing Membrane.

A two component, flexible, tanking membrane.

b. Trade Name: [Mapenet 150](#)

An alkali resistant fibreglass mesh used in reinforcing protective waterproofing compounds, anti-fracture membranes and insulating materials.

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.

- c. **Trade Name:** [Mapeband SA](#)
 A self-adhesive butyl tape and gasket 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.

4. ADHESIVE

- a. **Trade Name:** [Kerabond Plus & 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.

5. GROUT (if required)

- 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. 30 colours with matching silicone.

6. SILICONE SEALANT

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

7. 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.

8. Tolerances

- a. Maximum variation in the plane of the substrate should be no greater than + 2mm in 2 lm.

9. Concrete Block Substrates

- a. The substrate should be free of all laitance, curing compounds, dust, oil, wax, paint or other surface contaminants before the commencement of the installation.
 b. Any new concrete should have been curing for a minimum of 28 days.
 c. The concrete block should have flush filled mortar joints.

10. Levelling

- a. To level the substrate (remove unevenness and pointing between blocks) then we recommend the use of Planitop Fast 330 or Planitop Smooth and Repair R4.
 b. Substrate must be wetted with water prior to the application of Planitop Fast 330 or Planitop Smooth and Repair R4, especially when applied in thin layers.
 c. Apply to the substrate and work to the desired thickness.

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11. Installation

- a. After sufficient curing of the Planitop Fast 330 or Planitop Smooth and Repair R4, installation may then commence by first priming the levelling with Primer 3296 diluted 2 parts water to 1 part primer. Any joins in the Mapeband SA bandage must have no less than 50mm overlap. Use a small roller to remove any air pockets from the Mapeband SA bandage. Once all the detailing is completed with the Mapeband SA bandage, installation of the Mapelastic Smart to the entire substrate can commence.
- b. Upon sufficient priming of the substrate, application waterproof membrane may commence. A two-coat application is required with a minimum thickness of 2mm. This must include Mapenet 150 embedded into the body of the first coat of Mapelastic Smart.

Note: Mapenet 150 must not be run over or under any Mapeband SA joint or junction seals. It must be cut to fit within each plain.

- c. The Mapelastic Smart must be mixed in the ratio as supplied as a per the 20kg powder and 10kg liquid. If part mixing is necessary, the products must be weighed 2-parts Mapelastic Smart Part A powder to 1-part Mapelastic Smart Part B as per the product datasheet.
- d. After the initial mixing of the Mapelastic Smart, the mixture must be left to slake for 5 minutes and then re-mixed prior to being applied using a trowel, brush or roller.
- e. Membrane application must include Mapenet 150 embedded into the body of the first coat of Mapelastic Smart.
- f. 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 the correct sized 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.

Note: Mechanical Support (if required)

- a. It is advisable to use mechanical fixings, such as metal angles (straps) or pin fixings, where the tile is to be applied at a wall height exceeding 3 m above the ground or when the tile mass is greater than 32 kg/m². 32kg/m² refers to the weight of the tile that the adhesive can hold while it is curing.
- b. If mechanical fixings are being used, they must be dressed using Mapeband SA self-adhesive tape to full enclose the junction between the fixing and the membrane applied substrate.
- c. Once the fixings are enclosed, Mapelastic Smart must be applied to the Mapeband SA to fully protect the fixing penetrations from water ingress.

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12. Grouting (if required)

- a. Upon satisfactory curing of the adhesive, grouting can be commenced using Ultracolor Plus.

Note: Contact stone supplier for instructions on sealing the stone prior to grouting

13. Movement Joints

- a. In general, movement or control joints must be installed at the perimeter of all stone tile installed areas, where the stone surface abuts another material, at changes of plane, where joints exist in the substrate.
- 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 LM Silicone Sealant

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1. Limited Warranty

- a. MBP (NZ) LTD 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 MBP (NZ) LTD and therefore MBP (NZ) LTD 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, MBP (NZ) LTD's representatives may supervise the preparation of MAPEI products to ensure that the preparation meets the products' specifications, on the basis that MBP (NZ) LTD 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 MBP (NZ) LTD's representatives provide during their supervision will not modify any express manufacturers' warranty or product warranty relating to the relevant MAPEI products.

- c. MBP (NZ) LTD 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. MBP (NZ) LTD 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.

3. Consumer Guarantees

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- 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. MBP (NZ) LTD Terms of Trade;
 - b. Manufacturers or product warranty;
 - c. This Specification.

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