

Ready-to-use, ultra quick-drying, flexible liquid membrane for internal and external waterproofing

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include technical information by manufacturer and either an independent assessment or reference to an industry-based scheme



Mapei confirms that this minimum level of assurance has been met or exceeded by the following:

BRANZ Appraisal

[No: 484 \(2018\)](#)

Technical Statement

Product Description

Solvent-free synthetic resin based paste in water dispersion resistant to water, lime-water, water containing chlorine and detergents used for cleaning residential environments

Mapelastc AquaDefense dries very quickly to form a flexible sheath without a sticky surface that is resistant to light, pedestrian traffic and forms an excellent grip with all adhesives for laying ceramic, stone material and mosaic of all kinds

Mapelastc AquaDefense is resistant to rainwater 1 hour after applying the first coat and 3 hours after the second coat

WHERE TO USE

- To form waterproofing layers before applying ceramic, stone and mosaic coatings in:
 - balconies and terraces
 - bathrooms and shower cubicles
 - laundry rooms
 - saunas and damp environments in general
- Mapelastc Aquadefence may be applied on:
 - concrete
 - cementitious screeds and screeds made using special binders
 - plasterboard (internal applications only)
 - existing coatings in ceramic, terrazzo and stone
 - cementitious render

Scope of use

Mapelastc AquaDefense Wet Area Membrane is suitable for use as a waterproof membrane for internal wet areas of buildings, within the following scope:

- on floor substrates of concrete, flooring grade particle board, plywood, compressed fibre cement sheet and fibre cement sheet tile underlay, and on wall substrates of concrete, concrete masonry, wet area fibre cement sheet lining systems and wet area plasterboard lining systems; and,
- when protected from physical damage by ceramic or stone tile finishes; and,
- where floors are designed and constructed such that deflections do not exceed 1/360th of the span.
- The membranes must be installed by Mapei New Zealand Ltd approved applicators.

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- Clause B2 Durability:** Performance B2.3.1, B2.3.2
- Clause E3 Internal moisture:** Performance E3.3.6
- Clause F2 Hazardous building materials:** Performance F2.3.1

Notes

3.1 In the opinion of BRANZ, Mapelastc AquaDefense Wet Area Membrane if designed, used, installed and maintained in accordance with the statements and conditions of this Appraisal, will meet the following provisions of the NZBC: Clause B2 DURABILITY: Performance B2.3.1 (b) 15 years and B2.3.2. Mapelastc AquaDefense Wet Area Membrane meet these requirements. See Paragraph 9.1. Clause E3 INTERNAL MOISTURE: Performance E3.3.6. Interior wet area floors and walls incorporating Mapelastc AquaDefense Wet Area Membrane will meet this requirement. See Paragraphs 11.1 - 11.7. Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Mapelastc AquaDefense Wet Area Membrane meet this requirement and will not present a health



masterspec partner

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hazard to people. 3.2 This is an Appraisal of an Alternative Solution in terms of New Zealand Building Code compliance.

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

New Zealand Building Code (NZBC) 3.1 In the opinion of BRANZ, Mapelastic AquaDefense Wet Area Membrane if designed, used, installed and maintained in accordance with the statements and conditions of this Appraisal, will meet the following provisions of the NZBC:

Clause B2 DURABILITY: Performance B2.3.1 (b) 15 years and B2.3.2. Mapelastic AquaDefense Wet Area Membrane meets these requirements. See Paragraph 9.1.

Clause E3 INTERNAL MOISTURE: Performance E3.3.6. Interior wet area floors and walls incorporating Mapelastic AquaDefense Wet Area Membrane will meet this requirement. See Paragraphs 11.1 - 11.7.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Mapelastic AquaDefense Wet Area Membrane will meet this requirement and will not present a health hazard to people.

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:



BRANZ Appraisal
[No: 484 \(2018\)](#)

Product Criteria

Design requirements

Mapelastic® AquaDefense may be applied on:

- concrete;
- cementitious screeds and screeds made using special binders (Topcem, Topcem Pronto, Mapecem or Mapecem Pronto);
- plasterboard (for internal applications only);
- existing coatings in ceramic, terrazzo and stone;
- cementitious render.
- fibre cement board

Substrates must be well-cured, sound, clean, dry and free of oil, grease, cement laitance, old paint and any other substance which could compromise the bond. Cementitious substrates must be stable and dry with no rising damp. Surface dust must be completely removed.

Installation requirements

Installation must not be undertaken where the substrate surface temperature is below 10°C or above 35°C.

The membrane must be applied in a minimum of two coats at the rates set out in the Technical Literature. Subsequent coats must be applied in an opposite direction to the previous coat. The total finished system thickness of the Mapelastic AquaDefense must be a minimum of 0.8 mm.

Application can be made by roller (long nap), brush (long bristle), or a notched steel trowel (finished with a flat steel trowel).

Reinforcement fabric (Mapetex Sel) or Mapeband PE 120 is bedded into the wet layer between coats to provide movement protection at wall/ wall and wall/floor junctions, or any other areas such as joints in the flooring substrate, floor cracks, or around penetrations in the membrane. In all other situations, reinforcement provisions as set out in this Appraisal and the Technical Literature apply.

Clean up may be undertaken with water.

Maintenance requirements

No maintenance of the membranes will be required provided significant substrate movement does not occur and the tile finish remains intact. Regular checks must be made of the tiled areas to ensure they are sound and will not allow moisture to penetrate. Any cracks or damage must be repaired immediately by repairing the tiles, grouts and sealants.

In the event of damage to the membranes, the tiling must be removed and the membrane repaired by removing the damaged portion and applying a patch as for new work.

Drainage outlets must be maintained to operate effectively, and ceramic or stone tile finishes must be kept clean

Company Product Information

Environmental

Mapelastic® AquaDefense is a totally solvent-free, ready-to-use, ultra-quick drying, one-component light blue synthetic resin based paste in water dispersion. Low Volatile Organic Compound content.

Quality Assurance



ISO 9001 (Quality Management)

Relationships

UNI EN 14001:2004 1230

CSIRO Test Report 6095.2 6095.2

EMAS IT 000019



Date last validated: **03 August 2023**



Date last updated: **03 August 2023**

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