



# MOISTURE SEAL

## Epoxy Water Vapour Barrier

### TECHNICAL DATA SHEET

#### PRODUCT

A two part, high performance, water based epoxy moisture and vapour barrier formulated to prevent water seepage and permeation in building and construction substrates.

#### RECOMMENDED SUBSTRATES

- In-situ concrete
- Brick, block and stone work
- Fibre cement and AAC systems
- Pre cast and tilt up panels

#### FEATURES AND BENEFITS

- Easy water clean up
- Withstands high levels of hydrostatic head of water pressure (up to 25 metres or 250 kPa)
- Excellent adhesion to recommended substrates
- Convenient equal part mixing ratio by volume or weight
- Approved for use with potable (drinking) water, conforms to AS4020 (1992)
- Tested to ASTM E96 for water vapour transmission
- Australian made
- Environmentally friendly
- Non flammable, negligible odour and toxicity

#### PERFORMANCE PROPERTIES

(Not to be used as a specification)

TEST	RESULT
Appearance (mixed)	Brushable/rollable uniform paste with a matt appearance.
Colour	Grey /Off White
Finish	Matt
Mixing Ratio	1:1 (component A:B) by volume or 1:1 by weight (A:B)
Pot life	45 - 60 minutes @ 25° C
Re-coat time	4 hours @ 25° C & 50% RH
Water vapour barrier permeance	0.12g/24 hrs/M <sup>2</sup> mmHg @ 32° C and 50% RH
Application of adhesive/coverings	24 hours @ 25°C and 50% RH
Full Cure	5 – 7 days at 25° C and 50% RH
Specific gravity (mixed)	Approx. 1.25 at 25° C and 50% RH
Dry film thickness	200 µm (microns)

#### PACKAGING

Moisture Seal is available in 1 and 8 Kg Kit

#### COVERAGE

Apply by roller the first coat at 3-4 sqm/kg. Second coat at 3-4 sqm/kg. Coverage depends on surface porosity & substrate conditions. Moistureseal is designed to be applied in two coats to achieve an approximate dry film thickness of theoretically 200 microns

#### RECOMMENDED USES :

##### Timber Flooring Installation

- As a low vapour transmission barrier on concrete floor slabs to prevent moisture migration and subsequent swelling of timber flooring systems
- Highly recommended for use prior to any application of the Bostik Ultraset Timber Flooring Adhesive range

##### Building and Construction:

- As a low pressure head, water transmission vapour barrier coating to prevent moisture vapour penetration through ground floor slabs
- To prevent water seepage and permeation through exterior walls
- As a highly tolerant moisture and vapour barrier in water storage tanks, tanking applications, reservoirs and swimming pools
- As a curing compound coating over freshly laid (green) concrete
- As an excellent vapour barrier coating prior to the application of the Bostik Building Products range of cementitious repairs, screeds, epoxy floor toppings and coatings.
- Also suitable for use with commercial paints, tiling systems, soft and hard floor coverings
- May be used as part of a waterproofing system prior to the application of any of the Bostik liquid waterproof membrane range , Ultraseal, Boscoseal AC or Boscoseal PU
- Safe to use in sensitive locations (eg, around food or habitable areas).

## APPLICATION INSTRUCTIONS

### 1. Surface Preparation:

- All surfaces to be treated must be structurally sound and all previous coatings, adhesives, efflorescence or laitance should be removed by chipping, abrasive blast cleaning, high pressure water washing, mechanical scrubbing or other suitable means.
- All surfaces must be cleaned free from dirt, grease, oil or other surface contaminants.
- Holes, non-structural cracks and other surface deformities should be repaired using Bostik Patchfix in accordance with the technical data sheets.
- Very porous or “boney” concrete may require 3 coats of Moisture Seal. The first coat acting as a primer, penetrating into the pores of the concrete.
- Ensure recoat times are adhered to between applications (refer to precautions). A minimum of 4 hours is required between coats, preferably overnight if temperature is below 20°C.

### 2. Mixing

- Mixing should be by means of a mechanical forced action mixer with a high shear stirrer
- First, premix each individual component to form a homogeneous paste
- Second, join the two components by equal volume or weight, mixing thoroughly for a minimum of 5 minutes until a homogeneous blended paste is obtained
- Avoid trapping air during mixing, this may cause later pinholing in the coating during application
- Only mix as much as may be used within the pot life of the product

### 3. Coating Procedure

- Moisture Seal is a minimum two-coat system. The coverage rate as specified must be achieved to ensure transmission barrier and low permeability is obtained
- In all applications of Moisture Seal, it is critical that a final, dry film coating thickness of 200 microns (approximately the thickness of a business card) is achieved
- Applying with a brush or roller, ensure to work the material into the substrate surface to fill voids and eliminate pinholing
- During the curing process, Moisture Seal will experience 50% evaporation loss from each coating application. (Wet 200 microns will dry to 100 microns).
- As application progresses, test the coating depth at random points with a wet film gauge/comb to 200 microns
- Applying the two coats with this method, and allowing for the evaporation loss, the final dry film thickness should be achieved as specified
- Extreme care is necessary, and if required, protection should be provided to ensure Moisture Seal is not damaged in any way between or after final coating.

## PRECAUTIONS

### 1. General Use

- Moisture Seal cure rates will be dramatically reduced if relative humidity is above 85%.
- Moisture Seal should never be diluted.
- Do not apply to steel or metal surfaces as corrosion will occur.
- Do not add cementitious products to Moisture Seal.
- Moisture Seal is a vapour barrier and **not** a waterproof membrane. A dedicated membrane from the Bostik range should be used if a waterproof membrane in conjunction with a vapour barrier is required.
- Moisture Seal is **not** trafficable and must be covered with floor toppings, coatings or conventional coverings prior to foot or vehicle traffic introduction.
- In enclosed areas, such as water tanks or reservoirs, ventilation should be provided during curing cycle to enable adequate evaporation of the coating.
- Allow to cure for a minimum of 24 hours at 25°C/50% R.H. before applying adhesives, mortars, decorative coatings or other surface treatments.
- Moisture Seal will tend to yellow when exposed to UV light.
- Discard any material that has exceeded the pot life or working time of the product.
- Do not apply over any substrates that have been previously treated or coated with curing compounds, PVA concrete bonding agents or acrylic coatings. These areas must be mechanically cleaned by grinding or shot blasting to produce a contamination free surface.

## HEALTH AND SAFETY

On contact, Moisture Seal may cause irritation.

- Gloves and protective goggles must be worn during application and use.
- Avoid contact with skin, eyes and avoid breathing in vapour.
- Wear protective gloves when mixing or using
- If poisoning occurs, contact a doctor or Poisons Information Centre.
- If swallowed, do not induce vomiting. Give a glass of water and see a doctor.

## BOSTIK SMART SUPPORT

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