



# MOISTURE SEAL

## EPOXY WATER VAPOUR BARRIER

TECHNICAL SHEET 18/07/2022

### SMART ADVANTAGES

- Hydrostatic pressure tested to ASTM C1306-05A (Certificate number TR180517-1) exceeds 45 psi or 310 KPa\*
- Negative hydrostatic pressure tested to ASTM D7088-17 passes.
- Water vapour transmission rate tested to ASTM E96 (Certificate number TR180516-1) at  $<0.280 \text{ g/h/m}^2^*$
- Water based
- Easy clean
- Can be applied to damp surfaces
- Non-toxic, non-flammable
- Low odour
- Resist moss and mould growth

\*Note: Water vapour transmission rate and Hydrostatic pressure data stated in this Technical Data Sheet is based on independent laboratory testing.

### DESCRIPTION

**Bostik MOISTURE SEAL EPOXY WATER VAPOUR BARRIER** is two part epoxy for priming under flooring adhesives and waterproofing membranes. Moisture/ vapour barrier suitable for interior and exterior concrete or masonry surfaces. The solvent free composition is compatible with a wide range of coverings including the **Bostik Ultraset** flooring adhesives and **Dampfix Waterproofing** ranges.

### FUNCTIONAL CHARACTERISTICS

- Excellent adhesion to most substrates including bricks, masonry, concrete, compressed fibreboard, stone and timber
- For sealing concrete and masonry surfaces from water ingress or rising damp
- Can be used for waterproofing basements, lift wells, tunnels and subways
- As a vapour barrier and primer prior to the application of cementitious floor screeds or self-levelling compounds
- As a vapour barrier on concrete or masonry prior to the application of timber flooring or panels
- Barrier coating over freshly laid (green), hardened concrete



### TECHNICAL CHARACTERISTICS

Properties	Value
<b>Colour</b>	Part A (resin): Dark Grey Part B (hardener): White
<b>Mixed colour</b>	Mid Grey
<b>Mixing ratio</b>	1 : 1 by mass or volume
<b>Pot Life</b>	2 hours at 20°C
<b>Coverage</b>	First coat: 6 – 8m <sup>2</sup> /L Second coat: 8 – 10m <sup>2</sup> /L
<b>Drying time</b>	Touch dry 4 hours at 20°C Touch dry 8 hours at 10°C
<b>Recoat</b>	8 hours at 20°C
<b>Maximum recoat time</b>	48 hours at 20°C
<b>Application temperature</b>	10 to 30°C
<b>VOC</b>	Zero added VOCs
<b>Hydrostatic pressure tested to ASTM C1306-05A</b>	> 45 psi (>310 KPa)*
<b>Water vapour transmission rate tested to ASTM E 96</b>	< 0.280 g/h/m <sup>2</sup> *
<b>Negative hydrostatic pressure tested to ASTM D7088-17</b>	Passes

## INSTALLATION

### PREPARATION

- Ensure that the surfaces to be bonded are dry and free from oil, dirt and grease
- Use the two wipe cleaning process for impervious substrates. Ensure the cloths are clean and changed frequently
- All surfaces to be treated must be structurally sound and all previous coatings and/or adhesives removed
- Efflorescence or laitance should be removed by suitable means
- Ensure all surfaces are clean and free from all loose paint, dust, grease and release agents. Repair any mortar prior to application of **Bostik Moisture Seal**. If surfaces are wet, dry off with a hot flame then apply **Bostik Moisture Seal** before moisture returns
- **Bostik Moisture Seal** will tolerate a damp surface but will not cure if there is any free standing water or excessively saturated surfaces

### APPLICATION

#### Mixing

- Each component should be individually mixed for a few minutes to ensure a homogeneous consistency
- If the product has been in long term low temperature storage, some crystallisation may develop. If the mix is grainy or lumpy do not use
- Using a mechanical stirrer with mixing paddle mix the two components for 2 minutes. Use low speed of 200 -300 rpm
- Avoid air entrapment while mixing
- Scrape the sides of the bucket and mix for a further 2 minutes
- Only mix as much material as may be used within 2 hours at 20°C. Discard any material which has exceeded the pot life. Higher temperatures will shorten the pot life

#### Applying

- Apply using a brush or short nap synthetic paint roller
- Work into minor voids or defects but do not overwork as this can induce pin-hole Check the wet film build regularly using a wet film thickness gauge to ensure a minimum of 125 microns wet film thickness is achieved
- Allow to cure for a minimum of 8 hours and apply a second coat at right angles to the first coat to help eliminate pin holes and voids
- To ensure the correct vapour flow rate and permeance is obtained, a minimum of two coat with a final dry film thickness of 105µm is required
- Very porous concrete may require 3 coats of **Bostik Moisture Seal**. The first coat will act as a primer and penetrate into the pores of the concrete
- Allow to cure for a minimum of 24 hrs at 25°C/ 50% RH. before applying adhesives, mortars, decorative coatings or other surface treatments
- Self-levelling application: A minimum of two coats of **Bostik Moisture Seal** must be applied. The second coat may act as the primer coat for the self-levelling

## LIMITATIONS

- Care should be taken to ensure the freshly cured surface is not damaged in any way during subsequent treatments
- Do not heat areas using petrol or gas powered driers as carbon dioxide has a negative effect on cured strength
- Enclosed areas: ventilation should be provided during curing cycle to enable adequate evaporation of water
- A water vapour membrane must be free from any misses or pinholes in the coating
- **Bostik Moisture Seal** is NOT a trafficable surface and must be covered with conventional floor or wall coverings prior to traffic
- Do not apply to steel or metal surfaces as corrosion can occur
- **Bostik Moisture Seal** will tend to yellow over time when exposed to sunlight or UV light
- Dilute first coat sparingly with clean water if required. Do not dilute second coat at all
- Do not apply over any curing substrates that have been previously treated or coated with curing compounds, PVA, Bondcrete or acrylics
- Not suitable for direct contact with drinking water

### Important Notes

It is recommended that this product is fully evaluated as suitable for the application methods to be employed and for suitability of performance both initially and for the expected life of your product under the condition it is expected to withstand.

## CLEANING

Wash all equipment in water or water/detergent immediately on completion of application and use. **Bostik Moisture Seal** will cure under water, ensure dirty equipment is not left soaking in water. Cured material can only be removed mechanically.

## STORAGE

Store between 10°C and 30°C away from sunlight. Protect from frost. Shelf life is 12 months from the date of manufacture when stored as directed.

## PACKAGING

<b>Size</b>	8L kit (2 x 4L each Part A and B)  20L Kit (10L Part A in 10L pail and 10L Part B in a 20L pail)
<b>Product codes</b>	30613027  30613028

## HEALTH AND SAFETY

Product Safety Data Sheet must be read and understood before use. These are available on request and via the websites. Visit [www.bostik.co.nz](http://www.bostik.co.nz) for copies.

**For emergency information contact the National Poisons Information Centre, phone 0800 764 766 (0800 POISON) or CHEMCALL, phone 0800 243 622.**

The application recommendations are defined by standards of use. They are imperative to respect them, but they don't need a previous try, especially for a first use or particular inconvenient of support, site or environment. Consult our safety data sheets for precautions to use.

### DISCLAIMER

Bostik offers this Technical Data Sheet ("TDS") for descriptive and informational use only. It is not a warranty, a contract or a substitute for expert or professional advice. Please also see the local product Safety Data Sheet for health and safety considerations.

The statements, technical information, data, and recommendations contained in this TDS are provided 'AS IS' and are not warranted or guaranteed in any way. They represent typical results for the products and are based on Bostik's research only. Since the conditions and methods of use of the products are beyond our control, Bostik expressly disclaims any and all liability and damages of whatever kind or nature that may arise from any use of the products, the results therefrom, or reliance on the information contain herein.

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