



Moisture Seal E500

HIGH PERFORMANCE 2-PART WATER-BASED EPOXY DAMP PROOF BARRIER MEMBRANE

TECHNICAL SHEET 29/07/2024

SMART ADVANTAGES

- Accepts a wide range of coverings
- Excellent bond to a range of substrates
- Easy 1:1 mixing ratio (by volume)
- Withstands hydrostatic water pressure up to 25m or 250kPa
- Made in Australia

DESCRIPTION

Bostik Moisture Seal is a two-part epoxy for priming under flooring adhesives and waterproofing membranes. An approved moisture / vapour barrier suitable for direct contact with drinking water. The solvent free composition is compatible with a wide range of coverings including the Bostik Ultraset flooring adhesives and Dampfix waterproofing ranges

USES

- Concrete
- Fibre Cement
- Stone
- Masonry
- Structural Plywood
- Metal
- Brick
- AAC

PRODUCT CHARACTERISTICS

Colour	Green
VOC	0 g/Lt



PRODUCT PERFORMANCE DATA

Pot Life	70 – 90 minutes
Recoat time	4 hrs (minimum)
Cure time before covering	24 hrs (minimum)
Full cure	5 – 7 days

*All times are @ 25°C and 50% Relative Humidity (300g cup).
Curing rates will be affected by temperature and humidity on site.*



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USING MOISTURE SEAL E500

Please read and understand the Safety Data Sheet before using this product. SDS can be acquired by visiting www.bostik.com.au or by scanning the QR code on relevant packaging.

SURFACE PREPARATION

Check that the surface is structurally sound, clean and dry. Remove all surface contaminants as well as loose or friable material. In particular make sure no laitance, grease, oil, or dirt is present. Check that all curing compounds, bonding agents, coatings and other contaminants are either not present or have been completely removed. In some cases physical removal methods such as shot blasting or grinding may be needed.

Repair voids and defect as required. In most cases the Bostik Patchfix range can be considered.

Contact Bostik for specific advice if there is any uncertainty

MIXING

This is a two-part system and Part A must only be used with Part B in a 1:1 ratio.

All mixing must be done with a mechanical mixer and high shear paddle.

- Open the Part A pail and briefly mix the contents
- Open the Part B Pail and mix briefly
- Combine Part B into Part A with continuous mixing
- Mix until a uniform colour and consistency is achieved.

Mixing Tips:

- Avoid entrapping air while mixing. This can result in pin holes in the applied coat
- Scrape the sides and bottom of the container during mixing to ensure parts are well combined
- Do not dilute

APPLICATION

When applied as a vapour barrier, two coats are required

- Apply with a brush, roller or airless spray
- Ensure a minimum 200 µm (0.2mm) minimum wet film thickness achieved for each coat (check regularly with a wet film thickness gauge)
- Apply the second coat perpendicular to the first
- Work into minor voids or defects but do not over-work as this can induce pinholes
- A third coat may be required if the substrate is very porous or if pinholes are visible
- Do not use product that has hardened in the mixing pail.

Application Tips:

- Pin holes will compromise performance. If any are visible, apply additional coats.
- Applying only one coat will increase the likelihood of pinholes allowing allow the passage of moisture, even when applied at 400 µm wet film thickness. In addition, a single coat at 400 µm will take longer to cure than 2 coats at 200 µm. As such always apply two coats as a minimum.

COVERAGE

This product must be applied in 2 coats

Number of coats	1L	10L
1 Coat @ 200µm wet film	4 – 5 m ²	40 – 50 m ²
2 Coat @ 200µm wet film	2 – 2.5 m ²	20 – 25 m ²

The above coverage is approximate.

More products may be required when surface is uneven or has a high porosity. Always allow 10 – 15% wastage.

BOSTIK CO-OPERATIVE TEST PROGRAM

Bostik offer a service in which a program has been established to eliminate potential field problems by pretesting Bostik adhesives with samples of building materials to which the adhesive will be applied. This service is available on large projects where pre-application testing will aid in determining the proper surface preparation method to achieve optimum adhesion. Consult a Bostik representative for further information.

CLEANING

Remove as soon as possible using warm water and detergent. If allowed to harden it must be removed mechanically

IMPORTANT NOTES

- This is a two-part system. Part A must be used with Part B in equal volume
- Read the Material Safety Datasheet before using
- Use full kits whenever possible. Otherwise measure parts carefully to ensure correct ratio is used.
- Mixing at an incorrect ratio will affect performance and should be avoided
- Under no circumstances is this product to be diluted. Performance will be adversely affected if water is added at any stage before full cure.
- Ensure the parts are well mixed as insufficient mixing will affect performance
- This product will lose 50% of its volume when cured so the dry film thickness will be half that of the wet film thickness.
- A minimum of two coats must be applied at a total minimum dry film thickness of 200 µm / 0.2mm. Achieve this by applying two coats at a wet film thickness of 200 µm / 0.2mm per coat.
- Seal all metal and steel surfaces before application to avoid corrosion
- This product is not trafficable. Protect from damage until covered.
- Only use in ambient conditions between 5 – 35°C and <85% RH.
- Enclosed areas may require ventilation to facilitate curing.
- It is recommended that the treated surface be covered within 7 days. If longer apply and cure an additional coat before covering
- This is a vapour barrier and not a flexible waterproof membrane. Contact Bostik for advice regarding the most suitable membrane if one is required.
- This product may yellow when exposed to UV light.
- Do not apply if rain is immanent and protect from water for at least 24 hours.

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- Although this product is compatible with most conventional, commercially available paints, and industrial surface coatings such as epoxy, acrylic, polyurethane and polyester, it is recommended that confirmation from Bostik is attained before covering
- Contact Bostik before work commences if there is any doubt regarding product suitability, substrate preparation or product use

STORAGE & SHELF LIFE

Product will remain useable for 12 Months when stored unmixed, off the ground in a cool, dry and weatherproof environment. Store between 5 - 35°C.

HEALTH & SAFETY

SEE THE SAFETY DATA SHEET FOR ADDITIONAL INFORMATION.

For emergency information contact the Poisons Information Centre, phone 131 126 or the Emergency Response Service, phone 1800 033 111.

PRODUCT CODES

Ultra Moisture Seal 10L KIT	30840500
Ultra Moisture Seal 20L KIT (PART A)	30619621
Ultra Moisture Seal 20L KIT (PART B)	30620578

BOSTIK HOTLINE

1800 BOSTIK (267 845)



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