

technical data sheet

BOSTIK INSTANT-PRO™ MOISTURE BARRIER

PRODUCT

Bostik Instant-PRO™ Moisture Barrier is a two component water-based epoxy moisture and vapour barrier, used primarily prior to the application of Bostik Instant-PRO™ Timber Floor Glue.

DESCRIPTION

A two component, high performance, water based epoxy moisture vapour barrier used to prevent water seepage and permeation.

RECOMMENDED USES

- As a low pressure head water transmission vapour barrier coating to prevent moisture vapour penetration through floor slabs or prevent water seepage and permeation through the interior of exterior walls.
- As a highly tolerant moisture and vapour barrier in water storage tanks, tanking applications, reservoirs, and swimming pools.
- As a curing compound over freshly laid (green) concrete.
- As an excellent moisture and vapour barrier coating prior to the application of cementitious repairs, screeds, epoxy floor topping or coatings, use of one or two part polyurethane sealants or conventional commercial paints.
- As an excellent moisture and vapour barrier coating prior to the laying of tiling systems or conventional soft and hard flooring coverings.
- May be used as part of a waterproofing system prior to the application of Bostik liquid waterproof membranes.
- Safe to use in sensitive locations (e.g. around food or habitable areas).
- As an effective vapour barrier on concrete or masonry walls prior to the installation of wallboard or other decorative finishes. (Refer to precautions regarding the use of adhesives)

RECOMMENDED USES: TIMBER FLOORING INSTALLATION

- As a low water vapour transmission barrier on concrete prior to the application of Bostik Timber Floor Adhesive systems.
- Where concrete floors require self levelling prior to the installation of timber flooring, consult with a flooring professional.

FEATURES & BENEFITS

- Environmentally friendly
- Easy clean up using water
- Cured Moisture Barrier will withstand high levels of hydrostatic pressure (up to 25 metre head of water / 250Kpa)
- Non-flammable, negligible odour and toxicity.
- Has excellent adhesion to most substrates including brick, masonry, concrete block, concrete, compressed fibreboard, stone and timber.

- Convenient equal part-mixing ratio by volume or weight.
- Approved for use with potable (drinking) water – Conforms to Australian Standard AS4020 – 1992 and tested to ASTM E96 (W.V.T)

PERFORMANCE PROPERTIES

| | |
|-----------------------------------|--|
| Appearance | Brushable/ rollable uniform paste with a matt appearance |
| Colour | Light Grey liquid |
| 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 ² mmHg @ 32°C and 50% RH |
| Application of adhesive/coverings | 24 hours @ 25°C and 50% RH |
| Full Cure | 5 – 7days at 25°C and 50% RH |
| Specific gravity (mixed) | Approx. 1.25 @ 25°C and 50% RH |
| Dry film thickness | 200 µm (microns) |

PACKAGING

Bostik Instant-PRO™ Moisture Barrier is available in 4-litre units. (2 x 2 litre pails)

COVERAGE

Applied by roller/brush the first coat at 5m²/ litre (square metres per litre).

Second coat at 5m²/litre (square metres per litre). Coverage dependant on surface porosity and substrate conditions.

Bostik Instant-PRO™ Moisture Barrier is designed to be applied in two coats to achieve an approximate dry firm thickness of theoretically 200µm (microns)

APPLICATION INSTRUCTIONS

Surface Preparation

- All surfaces to be treated must be structurally sound and all previous coatings, adhesives, efflorescence or laitance should be removed by chipping, abrasion blast cleaning, high pressure water washings, mechanical scrubbing or other suitable means.
- All surfaces must be cleaned free from dirt, grease, oil or other surface contaminants including curing compounds, sealers & sealants, P.V.A, Bondcrete and Acrylics.
- Holes, non-structural cracks or other surfaces deformities should be attended to prior to using this product. If in doubt, Consult a flooring professional.
- Very porous or “boney” concrete may require 3 coats of Moisture Barrier, the first coat will act as a primer and penetrate into the pores of the concrete.
- Ensure recoat times and adhered to between applications (refer to precautions). A minimum of 4 hours is required between coats, preferably overnight if temperature is below 20°C.

Mixing

- Each component should be individually mixed to form homogeneous components prior to mixing.
- Thoroughly mix the two components in the ratio of 1:1 by volume A:B (or 1:1 parts by weight A:B) using a mechanical forced action mixer with a high shear stirrer until a homogenous paste time of the product.
- Avoid trapping air during mixing, this may cause pinholes in the coating during application.
- Only mix as much as may be used within the pot life of the product avoid excessive aeration during mixing.

Placing

- During the curing process, Moisture Barrier will experience 50% evaporation loss from each coating application.
- Moisture Barrier is a minimum two-coat system. The coverage rates must be achieved to ensure vapour transmission barrier and low permeability is obtained.
- In all applications when applying Moisture Seal, it is critical that a final, dry film coating thickness of 200 microns (approximately the thickness of a business card) is achieved.
- With the use of a wet film gauge/comb, apply each coat at a minimum wet film thickness of 200 microns (curing to a coverage rate dry film of 100 microns). Applying 2 coats with this method, allowing for the evaporation, should achieve the final dry film thickness specified.
- Care must be taken to work the material into the surface to fill voids and avoid pinholing.
- Extreme care is necessary to ensure Vapour Barrier coating is not damaged in any way between coatings or by following trade installations.

Spreading Mixture:-

- Spread the material using a roller brush, trowel or stiff nylon broom to achieve a smooth coverage and finish.
- Ensure Uniform thickness coverage is obtained.
- Care must be taken to work the material into the surface to fill voids and avoid pinholing.
- A minimum of two coats is recommended and care should be taken to ensure to uniformly apply the material at the required coverage rates.
- Allow to cure for a minimum of 24 hours at 25°C/50RH before applying adhesives, mortars, decorative coatings or other surface treatments.

PRECAUTIONS

1. General Use

- Moisture Barrier cure rates will be dramatically reduced if relative humidity is above 85%.
- Moisture Barrier should never be diluted.
- Do not apply to steel or metal surfaces as corrosion will occur.
- Do not add cementitious products to Moisture Barrier.
- Moisture Barrier is a vapour Barrier NOT a waterproof membrane. A dedicated liquid membrane such as Instant PRO WaterProof It should be used if a waterproof membrane in conjunction with a vapour barrier is required.
- Moisture Barrier is NOT trafficable and must be covered with floor toppings, coatings or conventional coverings prior to foot or vehicle 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 Barrier will tend to yellow when exposed to UV light.
- Discard any material that has exceeded the pot life or exceeded the 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.
- Where a levelling compound is to be used over Moisture Barrier, allow the two coats of Moisture Barrier to dry for a minimum of 24 hours at 25°C/ 50% R.H. before priming. Apply your primer as per the Manufacturers specifications. If in doubt, consult a flooring professional.

PRECAUTIONS

2. Cold Substrate and Cool Climatic Conditions.

- Moisture Barrier cure rates will be dramatically reduced if substrate surface or ambient temperature is below +10°C.
- If Moisture Barrier is applied in cold or cooler climatic conditions, substrate temperatures can produce amine blush, resulting in an oily residue and/or areas of uncured tacky discoloration (usually off white or yellow) If amine blush or any other form of surface contamination or discoloration appears on the coating, Moisture Barrier should be allowed to cure and then be washed with clean water. Ensure thorough removal of contamination prior to the application of any further coating. Failure to perform this procedure will result in delamination between coatings.
- Follow the mixing instructions exactly. Mixing slightly longer (e.g. extra 1 minute) after homogenous blended paste is obtained is better than under mixing.
- Allowing the product to stand for approximately 5 minutes after mixing will assist in accelerating the drying reaction.
- Never apply thin coats as the rapid moisture loss will arrest or slow the drying reaction. This can result in amine blush presence on the surface producing uncured or tacky areas. Heavier coats are always preferable to thin coats but a two-coat system will always be required.
- If possible store the Moisture Barrier in a 20°C environment 24 hours prior to use.
- If possible warm the substrate surface area where Moisture Barrier is to be applied by air blower or use a blower after application.
- Always provide adequate ventilation during the curing cycle.

PAINTABILITY

- Compatible with most conventional, commercially available paints, industrial surface coatings such as epoxy, acrylic, polyurethane and polyester. To ensure compatibility of any coating, it is recommended that a test patch be done first.

HEALTH AND SAFETY

- On contact, Moisture Barrier 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.
- If skin contact occurs, remove contaminated clothing and wash skin thoroughly for a minimum of 15 minutes and see a doctor.
- For more detailed information refer to Material Safety Data Sheet.

CLEAN UP

Wash all equipment in water or water/detergent immediately on completion of application and mixing. Moisture Barrier will cure under water, hence ensure dirty equipment is not left soaking in water.

STORAGE

Store between 10°C and 30°C away from direct sunlight Shelf life is 12 months in original unopened containers partly used containers must be sealed tight when not in use

FIRE

Product is non-flammable and poses not fire risk

BOSTIK INSTANT-PRO™ MOISTURE BARRIER

| Item No | ITEM NO. | STOCK SIZE | Unit per carton |
|---------|---------------|-------------------------|---------------------|
| 293881 | 9310492442655 | 2kg – both Part A and B | Part A & B together |

The representations and recommendations regarding the products are based on tests, which we believe to be reliable. However, no guarantee of their accuracy can be made because of the great range of field conditions and variations encountered in raw materials, manufacturing equipment and methods. Thus, the products are sold with a limited warranty only, and on the condition that purchasers will make their own tests to determine the suitability of the product for their particular purposes. Under no circumstances will Bostik Findley Australia Pty Ltd be liable to anyone except for replacement of the products or refund of the purchase price.

ALL SALES ARE EXPRESSLY LIMITED TO THE TERMS AND CONDITIONS OF SALE OF BOSTIK FINDLEY AUSTRALIA PTY LTD

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Moisture Barrier
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