



## technical data sheet

# BOSCOSEAL PU

## POLYURETHANE LIQUID WATERPROOFING MEMBRANE

### PRODUCT

One part polyurethane, liquid waterproofing membrane.

### DESCRIPTION

Boscoseal PU is a one-part coal tar free bitumen modified, moisture curing polyurethane membrane. When cured it provides a tough highly elastomeric, impervious barrier to moisture. Suitable for application by brush, roller or trowel. Bitumen membranes may bleed over time and cause staining. For this reason we do not recommend Boscoseal PU be used under tiles or in areas that may be affected by this.

### RECOMMENDED USES

- Masonry walls, foundations and basements.
- Under terrazzo paving and quarry tiles:
  - in courtyards
  - on rooftop slabs and balconies.
- Planter boxes and tubs.

### FEATURES & BENEFITS

- Coal tar free
- No mixing
- Early access for following trades
- Brush, roller or trowel applied
- Does not brittle with age
- Exhibits tenacious adhesion to masonry
- Non re-emulsifying
- High elasticity

### PERFORMANCE PROPERTIES

Typical properties after 7 days cure at 25° C and 50% RH

Colour	Black
Appearance	Smooth black paste, brushable, rollable
Shore "A" Hardness	30
Elongation	700%
Peel Strength	3-6kg/cm <sup>2</sup>
Moisture Vapour Transmission Rate	1.412 g/hr/ft <sup>2</sup>
Cure Time	24 hr
Flammability	Non-flammable

Conforms to ASTM C836.76, ASTM D412, ASTM D2280, ASTM E-96

### COVERAGE:

Boscoseal PU is a recommended 2 coat system, each coat should be applied at a rate of 1 m<sup>2</sup> per litre. A minimum of 24 hours should be allowed between coats. To ensure optimum performance, Boscoseal PU must be applied to achieve a minimum dry film thickness of 1.5mm. Do not thin with solvents or add fillers to Boscoseal PU.

### APPLICATION INSTRUCTIONS

#### PREPARATION

All surfaces must be clean, dry, free of voids, curing compounds, loose materials, oil, grease, sealers and

determined to be structurally sound before the application of Boscoseal PU.

New concrete must have cured for 28 days.

### APPLICATION

- The following instruction steps as detailed in this Technical Data Sheet may not be applicable in every application. They are provided as a guide to help ensure the correct procedures are followed.
- It is recommended that the installation of Boscoseal PU membrane should be carried out by professional applicators of waterproofing membranes. Installation shall be strictly in accordance with the manufacturer's written instructions.
- Boscoseal PU can be applied by brush, roller, trowel.
- Seal all cracks or joints over 2mm in width Bostik Ultraseal Fillet and Seal before application of the membrane.
- Boscoseal PU can be applied immediately over Ultraseal Fillet and Seal after initial set (approximately 45 minutes at 25°C).
- Apply Boscoseal PU evenly to avoid thin spots, air entrapment or pin holes. Any defects or damage can be repaired by over coating with Boscoseal PU. (See recoating and/or repair)
- If Boscoseal PU is left exposed for prolonged periods before further top coating can be applied, solvent cleaning of the membrane surface will be required to ensure top coat adheres without possible delamination (see recoating and/or repair).
- Commencement of membrane application shall be taken as acceptance of the substrate suitability and preparation by the applicator.

### PRIMING

- Boscoseal PU does not require priming on clean and dry substrates.
- Extremely porous substrates, very damp or green concrete or surfaces subject to low head of water pressure must be coated with Bostik Moisture Seal vapour and moisture barrier as a primer sealer and allowed to fully cure prior to any application of Boscoseal PU.
- Bostik Guardcote may be used as a primer on damp (no free surface water) fully cured concrete substrates subject to no head of water pressure.
- For pre-treated or suspect surfaces, contact Bostik Technical Division.

### PRECAUTIONS

- Membrane **must not** be installed on wet, contaminated, or friable substrates.
- Rate of membrane cure will be inhibited when air or substrate temperatures are below 5° C.
- Should not be applied greater than 1.5mm in depth in one application as the likelihood of foaming may occur.
- Requires atmospheric moisture to fully cure. It should not be used in totally confined or air free spaces.
- Tiling screeds, toppings or soil filling should not be carried out until membrane is fully cured.

- Boscoseal PU is not designed for applications directly under tiles. Bostik Ultraseal product range is
- To eliminate possible surface contamination tiling screed bedding or topping should be carried out as soon as possible after curing or temporary membrane protection will be required
- Bostik Boscoseal PU membrane should never be used as an exposed finish or as top coating exterior membrane, Bostik Boscoseal Torch On with mineral slate finish membrane top sheet is designed for these applications
- Should not be applied over any form of lightweight concrete
- Although it is not recommended, if direct sticking of tile adhesives is intended to Boscoseal PU, a polyurethane based tile adhesive such as ASA Polyfix should be used.
- Any intended application of Bostik Boscoseal PU membrane outside of recommended installation should be referred to Bostik Technical Services for approval
- Boscoseal PU should not be used in chlorinated water such as swimming pools, spas.

## MEMBRANE RECOATING AND/OR REPAIR

### Recoating (After 7 days following full cure)

The surface must be cleaned free of all residue, surface dust and any forms of contamination present. The surface can then be reactivated with use of a clean rag lightly saturated with Bostik Solvent 9934. Apply sparingly with a light buffing/cleaning action.

### Repairing

If repair of Bostik Boscoseal PU is necessary, the thorough removal of all foreign adhesives or toppings must be carried out. Ensure the repair area surface is left free of all residue, dust or contamination. Solvent wipe and clean with Bostik 9934 as detailed in recoating.

In both applications do not pond or flood the surface with excessive 9934 solvent, as this will soften the existing membrane surface and may damage/dissolve the film thickness. After solvent cleaning, isolate the area to ensure the membrane is not recontaminated. Spot repair or recoat the membrane after all solvent has flashed off, usually within 4 hours.

## P.A.T.S

### (Pretested Adhesion To Substrate) Programme

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

recommended for direct adhere tiling applications.

## PAINTABILITY

Boscoseal PU is not paintable

## PACKAGING

Boscoseal PU is supplied in 18.9 Litre (US 5 gal) drums.

## STORAGE

Store between 5°C and 30°C. If stored within these temperature ranges, Boscoseal PU has an unopened shelf life of **6 months**. Protect from excessive heat and moisture. Boscoseal PU is non-flammable.

## CLEAN UP

Bostik Handi-Clean Towels will remove Boscoseal PU from skin prior to full cure. Boscoseal PU can be cleaned from equipment with Bostik 9907 or 9934 solvents before fully cured. Wear eye protection and use solvents in well-ventilated area, do not use solvents on skin.

## HEALTH AND SAFETY

- Gloves and protective glasses must be worn during the application process or when open lid handling.
- If swallowed, do not induce vomiting. Give a glass of water and contact a doctor or Poisons Information Centre.
- If skin contact occurs, remove contaminated clothing and wash skin thoroughly for 15 minutes. Do not use solvents on skin. Boscoseal PU presence on the skin can be removed, when uncured, with Bostik Handi-Clean towels.
- For more detailed information refer to Material Safety Data Sheet.

Item No	Stock Size	Colour
<b>BOSTIK BOSCOSEAL PU</b>		
244295	18.9litre pail	Black
<b>ULTRASEAL FILLET &amp; SEAL</b>		
264229	720 gm (600ml) Sausage	White
<b>HANDI-CLEAN TOWELS</b>		
257753	72 Towels per pack/6 packs per carton	
<b>MOISTURE SEAL</b>		
263362	8 Litre Kit	Grey
263370	20 Litre Kit	Grey
<b>5077 PRIMER</b>		
227935	1 Litre Tin	Clear
<b>SOLVENTS</b>		
161608	9934 – 20 Litre Drum	Clear
045306	9907 – 20 Litre Drum	Clear
<b>GUARDCOTE WB</b>		
289369	4 litre	Clear
289418	20 litre	Clear

*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 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 AUSTRALIA PTY LTD**



## FOR FURTHER INFORMATION

**BOSTIK AUSTRALIA PTY LTD**  
Phone: +61-3-9279 9333  
Fax: +61-3-9279 9240

**BOSTIK NZ LIMITED**  
Phone: +64-4-567 5119  
Fax: +64-4-567-5412

**BOSTIK SINGAPORE PTE LTD**  
Phone: +65-6863 4088  
Fax: +65-6863 4077

**BOSTIK (MALAYSIA) SDN BHD**  
Phone: +606 764 3246  
Fax: +606 764 3248

**SYDNEY**  
Phone: 02 8825 3488  
Fax: 02 8825 3411

**ADELAIDE**  
Phone: 08 8244 0511  
Fax: 08 8244 0522

**PERTH**  
Phone: 08 9258 6218  
Fax: 08 9258 7687

**BRISBANE**  
Phone: 07 3260 2206  
Fax: 07 3260 2123

**(ABN 79 003 893 838)**

Product:	Boscoseal PU
Issue Date:	May 2007
Issue No:	5
Division:	Construction
Total Pages:	2