



# Boscoseal PUW

## WATER BASED BITUMEN MODIFIED POLYURATHANE WATERPROOFING MEMBRANE

### TECHNICAL DATA SHEET

#### BENEFITS

- Withstands high hydrostatic positive pressure > 5 bar
- Exceptional durability -20°C to 50°C
- Reduces shrinkage and cracking
- Protection of concrete against certain aggressive chemicals including chloride attack to steel reinforcing
- Sealing static cracks up to 0.4mm

#### PRODUCT DESCRIPTION

**Bostik Boscoseal PUW** is one component water-based bitumen modified Polyurethane liquid applied waterproofing membrane. After curing it provides a tough, highly elastomeric, impervious barrier to moisture. Suitable for application by brush, roller or trowel.

#### APPLICATIONS

- For waterproofing masonry walls, foundations and basements.
- For waterproofing roof lap slabs, balconies and courtyard.
- For waterproofing beneath terrazzo, paving and quarry tiles.
- For waterproofing bathrooms, laundries and wet areas prior to tiling.
- For waterproofing planter boxes.

#### CONSUMPTION

1 kg/m<sup>2</sup> per coat. Minimum number of coats 2 or 3 depending on application.

#### DIRECTIONS OF USE

- The product usually does not require priming when the substrate is clean, sound and dry. But if priming is necessary, dilute a portion of the product with 20% clean water. After application allow to cure for approximate 30 minutes.
- The product is ready to use. Stir thoroughly before application.
- **Bostik Boscoseal PUW** can be applied by brush, roller or trowel.
- The product should be applied to achieve a dry film thickness of minimum 1mm for optimum performance. To achieve this dry film thickness, apply **Bostik Boscoseal PUW** at 1 kg per m<sup>2</sup> per layer x 2 layers. Minimum 2 layers application is needed.
- Extremely porous surfaces should be filled prior to application. Apply the product evenly to avoid thin spots, air entrapment or pin holes. Any defects can be repaired by over coating.
- Allow 6 hours between coats.



- Protection boards must be used to protect the membrane before back filling or concreting.
- Rate of membrane cure will be inhibited when air or substrate temperatures are below 5°C.
- Should not be applied more than 3kg per m<sup>2</sup> in one application.
- Requires contact with atmospheric air to fully cure. It should not be used on totally confined or air free spaces.
- Mortar bed screed or tiling should not be carried out until membrane is fully cured.
- To eliminate possible surface contamination, tiling work should be carried out as soon as possible after curing or following trade protection may be required.
- **Bostik Boscoseal PUW** membrane should never be used as an exposed finish or as top coating exterior membrane.
- Any intention to use **Bostik Boscoseal PUW** out of recommended uses, should refer to Bostik technical services for approval.
- Not suitable to apply on any form of lightweight concrete.

## TECHNICAL DATA

Form	Smooth paste
Color	Black Coffee
Appearance	Smooth black paste, brushable, rollable
Shore "A" Hardness	45
Elongation at break	> 200%
Tensile strength	45kg/cm <sup>2</sup>
Moisture Vapor Transmission	6.2g/hour/ft <sup>2</sup> x h x inc x Hg
Curing time (h)	24
Flammability	Non-flammable
Flash point	>50°C

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

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

## SURFACE PREPARATION

- All surfaces must be clean, dry, free of voids, curing compounds, loose materials, oil, grease, sealers and determined to be structurally sound before application of Bostik Boscoseal PUW. New concrete must have cured for 28 days.
- Cracks and other defects must be repaired. Seal all cracks or joints of 2mm in width with Bostik sealant before waterproofing application.
- Concrete slab must be minimum of 4 weeks old.
- Minimum substrate temperature +5°C.
- Maximum substrate temperature +35°C.
- Maximum air humidity 85% r.h.
- Observe dew point temperature.
- For best result, maximum thickness of Boscoseal PU W is 0.5 mm dry film thickness per layer.
- Newly applied surfaces should be protected from water minimum of 6 hours.

## CLEANING

**Bostik Boscoseal PUW** can be cleaned with water before curing.

## COLORS

Coffee black

## PACKAGING

10kg plastic pail

## SHELF LIFE

- The product must be protected from water, frost and adverse weather conditions.
- It should be kept dry and cool on wooden pallets at between +10°C and +25°C in moisture free conditions.
- Opened packaging should be closed immediately after use and consumed within 24 hours.
- Maximum 3 pails should be stocked on each other
- Shelf life is maximum 12 months conditional to complying with abovementioned storage conditions

## HEALTH AND SAFETY

On contact, uncured membrane causes irritation. Gloves and protective goggles must be worn during stirring, application, and use. Avoid contact with skin, eyes and avoid breathing in vapor. 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.

Please read MSDS (Material Safety Data Sheet) before application.

## P.A.T.S (Pretested Adhesion To Substrate) Programme

(Pretested Adhesion To Substrate) Bostik offers a service in which a program has been established to eliminate potential field problems by pre-testing Bostik coatings and membranes with samples of building materials to which the systems 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.

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