



# technical data sheet

## **BOSCOSEAL 16** **Waterproofing Sheet Membrane**

**PRODUCT**

Boscoseal 16 is a self adhesive sheet waterproof membrane.

**DESCRIPTION**

Boscoseal 16 Waterproofing Membrane is a self adhesive, self-sealing layer of rubberized bitumen protected by a film of polyethylene. An overlap seam down each edge ensures complete sealing of overlap seams. Boscoseal 16 W.P.M. is composed of a uniform of rubber modified bitumen bonded to a polyethylene film. The physical properties will remain stable over time and under sever weather conditions. Adhesive side is protected by removable release paper.

**RECOMMENDED USES**

- Boscoseal 16 W.P.M. is designed for use as a water and vapor barrier in all unexposed waterproofing applications.
- Concrete/timber waterproofing of:
- Terraces
- Plazas
- Bridge construction as a sandwiched membrane
- Vertical foundation walls
- Tunnels
- Subways
- Planter boxes

**FEATURES & BENEFITS**

- Self adhesive
- Self sealing
- Self sealing edge for overlaps
- Fully bonded
- Repaired easily
- Bonds to most substrates
- No seaming tapes needed

**PERFORMANCE PROPERTIES**

Typical performance properties

Property	Value	Test Method
Compound Thickness	1.5mm	UNI8202
Protective Film Thickness	0.1mm	UNI8202
Total Thickness	1.6mm	UNI8202
Weight	1.6m kg	UNI8202
Tensile strength long	4.35N/mm	ASTM D 638
Tensile strength trans	5.69 N/mm	ASTM D 638
Tensile strength long	3.30N/mm <sup>2</sup>	ASTM D 412
Tensile strength trans	4.46N/mm <sup>2</sup>	ASTM D 412
Elongation long	251 N/50mm/ 370%	DIN 52123 with 10=100mm
Elongation trans	271 N/50mm/ 210%	DIN 52123 with 10=100mm
Elongation	>500%	ASTM D 412 modified
Tear Resistance long	71N	DIN 53363
Tear Resistance trans	88N	DIN 53363
Tear Resistance long	92N	UEAtc- 50 N
Tear Resistance trans	102N	UEAtc- 50 N
Adhesion to primed concrete	4.9 N/mm	ASTM D 1000
Adhesion to steel	5.8 N/mm	ASTM D 1000
Puncture Resistance	281, 5N	ASTM 154
Vapor Transmission rate	0.07g/ m <sup>2</sup> /hr	ASTM E 96
Cold flexibility	-40°C	DIN 52123
Softening point	98°C	DIN 52011

**PACKAGING**

Boscoseal 16 is available in 1.6mm thick x 1mtre wide x 20mtre length rolls and is black in colour.

**COVERAGE****Estimating Guideline**

Product	Allowance
Boscoseal 16 W.P.M.	10% for overlaps and passes 4% for normal detailing
Bostik 9222 Primer	4litres per roll (5 M <sup>2</sup> litre)
Bostik 1313 Mastic	1litre for every 3 rolls horizontal 1litre for every 2 rolls vertical Extra for penetration
Bostik 5326 P.B, Tape	1 metre per square metre

## APPLICATION INSTRUCTIONS

All surfaces should be clean, dry, free of loose particles, dust, oil or any other contaminants. Concrete must be given a minimum of 28 days cure. The substrate should be primed with suitable primer (Bostik 9222 Primer). The release paper should be removed from the underside of the membrane as it is placed in its final position.

All rows and exposed edges at overlaps and penetrations should be protected with a bead of bituminous mastic (Bostik 1313 mastic). For further information refer to installation sheet supplied upon request. All laps must be rolled using a heavy metal roller to ensure full lap adhesion.

## MEMBRANE PROTECTION

Boscoseal 16 W.P.M. must be protected within 5 days of installation from the damages which may be caused by backfilling steel reinforcing, trade traffic, construction equipment and materials.

A protective board such as water resistant particle boards, plywood fibre-cement or any other proprietary protective board must be used. The protective board should be adhered with Bostik 5326 Protective Board Tape. Weather resistant flashing must be used to cover any portion of membrane left exposed, such as in upstands, parapets and top of foundation walls. The membrane must be thoroughly inspected to ensure there are no punctures or tears.

All leaks should be marked and the membrane repaired when membrane is clean and dried.

Any damage must be required with a patch of Boscoseal 16 W.P.M. with a minimum overlap of 75mm from any edge.

## PRIMING:

On completion of cleaning the substrate prime using Bostik 9222 primer

## MIXING:

No mixing required. Simple use off the roll supplied.

## PRECAUTION

- Not compatible with tar, tar PU's or polysulphides
- Should not be applied onto damp or wet substrates
- Should not be applied to uncured concrete
- Should not be applied when temperatures below 5°C or above 35°C
- Roll or cut sections should not be left exposed to sun or rain, as it may result in difficulties in removing the release paper.
- Not designed for exposed applications, it must be protected with either flashing or topping as the case may require.

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

Bostik offer a service in which a program has been established to eliminate potential field problems by pre-testing 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.

## HEALTH AND SAFETY

- On contact, uncured sealant causes 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

For general cleaning use Bostik 9907 cleaner. Do not use solvents on skin. For removal on skin use Bostik Handi-clean Towels.

## STORAGE

When stored at or below 27°C Bostik Boscoseal has a shelf life of 12 months from date of shipment from Bostik's warehouse. All materials shall be stored under cover in a manner that will prevent damage, preferably on pallets in an upright position and protected from excessive heat and moisture.

## FIRE

Boscoseal 16 is non-flammable.

ITEM NO	STOCK SIZE	COLOUR
<b>Boscoseal 16 W.P.M.</b>		
222569	20mtre length x 1.6mm thick x 1 meter wide roll	Black
<b>Bostik 9222 Primer</b>		
189200	20 litre	Black
<b>Bostik 1313 Mastic</b>		
245429	15 litre	Black
<b>Bostik 5326 Protective Board Tape</b>		
163198	38mm x 1.55mm x 20mtre length	Black

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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 be liable to anyone except for replacement of the products or refund of the purchase price.

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