

BOSCOSEAL AC1

1 Part Waterproofing Membrane

PRODUCT

Boscoseal AC1 is a 1 part water based acrylic polymer waterproofing membrane.

DESCRIPTION

Boscoseal AC1 is specifically formulated for use in conjunction with open weave polyester matting and tape reinforcement in commercial and residential internal and external waterproofing applications.

Low in odour, it is well suited to internal use and offers excellent, easy application by brush or roller.

RECOMMENDED USES

- Internal wet areas to be tiled including showers, bathrooms, toilets and laundries.
- External balconies and decks prior to the installation of a covering material such as tiles or non-solvent topping systems.
- Non traffic podium's or roof areas subjected to weather and UV light exposure.
- Suitable for waterproofing a broad range of substrates including: concrete, cement render, brickwork, particleboard, plywood, plasterboard, gyprock, composition board and fibre cement sheeting.
- Planter boxes and tubs

FEATURES & BENEFITS

- Low odour for ease of use in internal applications.
- Excellent rolling and brushing ability.
- Flexible.
- Excellent UV light resistance.
- 10Year material guarantee.
- Environmentally friendly.
- Water based for easy application and clean up.
- Australian made

PACKAGING

Boscoseal AC1 is supplied in 15 litre plastic pails.

COVERAGE

Boscoseal AC1 should be applied as a 2 coat system. Each coat should be applied at 0.8mm wet film thickness, which will cure to a 0.6mm dry film thickness.

Application of two coats at this coverage rate will provide the minimum 1.2mm dry film thickness required to ensure an effective, waterproofing membrane.

Coverage rates are dependent on substrate composition, porosity and condition.

PERFORMANCE PROPERTIES

(Do not use for specification purposes)

Colour	White
Drying time	24 hours between coats @ 25°C and 50% RH
Elongation	300% Approx
Tensile Strength	1.5 N/mm²
Cure before tiling	Minimum 3 days @ 25°C and 50% RH
Application Temp	+10°C to +35°C
Flammability	Non-flammable

APPLICATION - IMPORTANT NOTES

It is recommended that the installation of Bostik Boscoseal AC1 be carried out by professional applicators of waterproofing membranes. Installation is to be strictly in accordance with the manufacturer's written instructions. In waterproof membrane applications polyester non-woven cloth tapes and matting must be used with Boscoseal AC1. The Bostik Technical Division must approve any modification or variances to these specifications in writing. Read the following notes in conjunction with precautions;

- The application of Boscoseal AC1 must comply with AS3740-1994 "Waterproofing of Internal Wet Areas in Residential Buildings".
- Commencement of membrane application shall be taken as acceptance of the substrate suitability and preparation by the applicator.
- It is advisable to wear protective gloves when applying Boscoseal AC1, matting and tapes.
- Ensure necessary primers have been allowed to dry for the minimum recommended period prior to the application of Boscoseal AC1.
- Ensure sufficient Boscoseal AC1 is applied in two coats to achieve a total 1.2mm thick dried film.
- Ensure recoat times are adhered to between applications. A minimum of 24 hours (refer to performance properties) is required between coats, overnight preferably if temperatures are below +20°C.
- When applying final coat, ensure no imperfections are present in the membrane.
- Boscoseal AC1 must be allowed to fully cure before tiling.

PREPARATION & APPLICATION PROCEDURE:

1. PRIMING

- All surfaces will require priming.
- Porous surfaces must be primed with Bostik AC Primer. Allow AC Primer to dry approximately 30 minutes prior to application of Boscoseal AC3.
- Very 'boney' or porous concrete may require more than one coat of AC primer to fill and penetrate the pores of the concrete.
- Non porous surfaces such as existing tiles and burnished concrete will require priming with Bostik Ultra NP Primer.

- Metal surfaces and PVC pipes should be primed with Bostik 5077 primer.
- All designated primers must be applied in accordance with the current applicable primer technical data sheet.
- For pre-treated or suspect surfaces, contact Bostik technical service.

1. SUBSTRATE

- **All surfaces must be primed.**
- Before the application of Boscoseal AC1 all surfaces must be clean, dry and structurally sound. The substrate must be free of voids, curing compounds, sharp objects, laitance, loose material, oils, grease or sealers.
- Do not apply over concrete slabs containing high moisture content (above 15%).
- New concrete must be cured for 28 days, mortar beds and cement render cured for 7 days.
- Holes, non-structural cracks over 5mm and other particularly rough surfaces should be repaired using a recommended Bostik floor levelling compound or Bostik Ultrarapid Set polymer repair mortar.
- Very 'boney' or porous concrete must be primed or moisture sealed prior to any application (see Priming).
- All cement sheet joints and movement joints designed in base substrates where Boscoseal AC Primer or AC Membranes will be in direct contact must be sealed with Bostik neutral cure silicone or Simson SMP joint sealants prior to membrane application. Sealants must not be applied in, or to, moist or damp surfaces.
- Fibrous cement sheeting and plasterboard must be installed in accordance with manufacturer's directions.

2. MOISTURE AND VAPOUR BARRIER REQUIREMENT

- Boscoseal AC1 must **not** be applied to surfaces that are moist or damp. Applications to these surfaces can result in adhesion failure and surface bubbling of the membrane.
- Applications requiring access onto moist, 'green' or uncured concrete will first require the application of Bostik Moisture Seal epoxy vapour barrier which will act as a curing compound and moisture transmission barrier.
- Bostik Moisture Seal must be applied in a two-coat system as per Technical Data Sheet. Boscoseal AC1 must be applied immediately the second coat 'tacks off'.
- If Boscoseal AC1 cannot be applied within 24 hours of the second coat of Moisture Seal curing, a third coat must be applied

4. CRACKS & NARROW JOINT SEALING

- All cracks must be cleaned with loose material removed.
- For cracks and joints up to 5mm apply a bead of Bostik Neutral Cure Silicone into the crack and extending 5mm either side. Tool smooth with spatula.
- Once silicone is tack free prime the repair area with Bostik AC Primer to a width of 150mm each side of repair.
- Allow AC Primer to dry approximately 30 minutes.
- Apply two coats of Boscoseal AC1 over the primed area achieving a minimum dry film thickness of 1.2mm.
- Cracks over 5mm must be repaired and designed movement joints sealed as detailed in substrate preparation section.

5. INTERNAL WET AREAS – SEALING CORNERS & WASTE OUTLETS

- **Do not** use polyurethane based sealants in these applications.
- Ensure falls required in the screed to shower recess base, pipe outlets, angles and drainage is installed correctly.
- All corners and substrate gaps around taps, shower outlets, waste outlets, pipes, drains, flashings and nail/screw holes must be sealed using Bostik Neutral Cure Silicone or Simson SMP sealants.
- Apply a 10mm bead of sealant by caulking gun directly into all wall/floor, hob/floor, hob/wall and wall/wall corners to intending tile height.
- Sealant should be spatula tooled smooth around fittings and pressed into corners creating a triangular fillet.
- Allow sealant to tack off (approximately 30 minutes).
- Apply primers if required, after sealant tack off, to all areas intended for Boscoseal AC1 application.

6. SHOWER MEMBRANE APPLICATIONS

Primer applications must be dry

➤ Walls

- Precut polyester tape in lengths to suit all wall/wall and wall/floor corners to be coated.
- Apply Boscoseal AC1 to the internal shower wall corners extending out 100mm onto each wall using a paintbrush. Ensure all corners are well coated. This must extend past the height of the shower rose. It is important to coat around any tap body protrusions through the wet area wall as per AS3740.
- Lay and force the precut polyester tape into the wet Boscoseal AC1, positioning across the corner with equal extension onto wall sides.
- Immediately cover the polyester with a heavy coat of Boscoseal AC1.
- The wall/floor junctions must then be coated extending 100mm onto the floor and up the wall 100mm.
- Where the height of the hob is greater than 75mm, then the Boscoseal AC1 must extend at least 25mm above the height of the hob.
- Again, as for walls, lay and force the polyester tape into the wet Boscoseal AC1 and re-coat.
- Apply Boscoseal AC1 to remaining wall surfaces, coating above anticipated shower rose height, covering all previously coated wall/wall junctions, wall/floor junctions, and tap protrusion surrounds.

➤ Shower Base

- Precut polyester matting to shower base dimensions.
- Fully coat the shower base with Boscoseal AC1 dressing down into the waste at least 50mm.
- Lay and force the precut matting into the wet Boscoseal AC1 to ensure complete contact is achieved.
- Immediately re-coat the matting, ensuring there is no air entrapment.
- Allow too dry for at least 24 hours before re-coating the entire area to be waterproofed, including full cover over all initial coatings.
- A third coat of Boscoseal AC1 may be necessary if imperfections in the membrane are present.

7. WET AREA FLOOR & EXTERNAL DECK APPLICATIONS

- Primer applications must be dry.
- If the wet area floor, balcony or deck areas to be coated are subject to service or other building penetrations, it is recommended, if possible, to install a flanged metal up stand around the penetration.
- Prime metal up stands with Bostik 5077 primer and seal off the perimeter of the penetration with a 10mm bead of Bostik Neutral Cure Silicone.

- As for shower recesses, precut polyester tapes and matting to required lengths and dimensions.
- Apply Boscoseal AC1 into wastes, drains or onto puddle flanges. Boscoseal AC1 must be dressed down into the waste at least 50mm.
- Apply an initial coat of Boscoseal AC1 either side of all wall/floor junctions and sheet flooring joints. Extend the coating at least 100mm either side of the joins.
- Lay polyester tape along corners into wet Boscoseal AC1 and recoat, ensure there is no air entrapment in the tape.
- Repeat the procedure on the floor area.
- Apply an initial coat (It is recommended that areas of only 1-2 M² be applied at any one time) lay and force precut matting into the wet Boscoseal AC1 to ensure complete contact is achieved.
- Immediately recoat, ensuring there is no air entrapment in the matting.
- Allow too dry for at least 24 hours.
- A third coat of Boscoseal AC1 may be necessary if imperfections in the membrane are evident.

8. ROOF APPLICATIONS

Boscoseal AC1 is recommended as a waterproof membrane for non-traffic areas. (Application method is the same as for wet areas, floors and decks). These areas of application should not be accessed until membrane has fully cured.

TILING AND MORTAR BED COVERING

To eliminate possible surface contamination or damage, it is recommended tiling, mortar bed applications or finished flooring installations are carried out as soon as possible after full cure of the membrane. These installations may be carried out after the Boscoseal AC1 two-coat system has been allowed to cure for a minimum of 3 days at 25°C (slightly longer in lower temperatures). Movement joints provided in tiling should be filled with either Bostik Seal'n'Flex 1 or FC polyurethane sealant or Bostik neutral cure anti-fungal silicone sealant.

TILE ADHESIVE

Proprietary commercially available tile adhesives may be used such as Architectural & Structural Adhesives (ASA); ASAFLEX, CONFLEX, MEGAFIX or FIXALL mixed with MEGALASTIC and/or equal, recommended and applied in strict compliance with manufacturer's instructions.

P.A.T.S PROGRAMME

(Pretested Adhesion to Substrate)

Bostik offer 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.

PRECAUTIONS

- Do not apply where the surface temperature is below +10°C or greater than 35°C.
- Boscoseal AC1 is not a vapour barrier nor designed to stop a hydrostatic head of water pressure. (For this application, Bostik Moisture Seal should be used).
- Do not apply on wet (moisture content above 15%), contaminated, or friable substrates.
- Do not apply externally if raining or rain is imminent.
- Do not apply to surfaces with protective coatings without prior consultation with Bostik.
- The rate of cure will be dramatically reduced when air or substrate temperatures are below +10°C or if applied over a vapour barrier or untreated concrete.
- A third coat of Boscoseal AC1 may be necessary if imperfections in the cured membrane are evident.
- The application rate of Boscoseal AC1 should not be extended over the recommended coverage of 1 litre per square metre or under 0.8mm wet film thickness in one application.
- Do not dilute with water or extend with cement powders or other additives.
- Boscoseal AC1 requires atmospheric conditions to cure. It should not be used in totally confined or air free spaces.
- Boscoseal AC1 is not trafficable and should not be used as a wearing surface for foot or vehicle traffic.
- Do not apply over treated pine.
- Totally impervious substrates such as epoxies and rigid fibreglass will require priming.
- To prevent mechanical damage in planter boxer or tubs, timber or rigid plastic (corflute) sheets must protect the membrane.
- Boscoseal AC membranes must not come in direct contact with polyurethane sealants in any application.
- Any intended use of Boscoseal AC1 outside of specified use should be referred to Bostik technical services for approval.

HEALTH AND SAFETY

- If swallowed, do not induce vomiting. Give a glass of water; contact a doctor or Poisons Information Centre.
- For more detailed information refer to Material Safety Data Sheet.

CLEAN-UP

Boscoseal AC1 can be cleaned from skin and application equipment with water while the membrane is still wet.

STORAGE

Store in original containers under cover in dry conditions. Boscoseal AC1 has a shelf life of 12 months in original unopened containers if stored between 5°C and 35°C. Do not freeze.

ITEM NO.	PRODUCT
301248	Boscoseal AC 1 15 Litre White
301256	Boscoseal AC 2 15 Litre White
298476	Boscoseal AC 3 20 Litre (2 Part Kit) Grey
300217	AC Primer 20 Litre
263362	Moisture Seal 8 Litre (2 Part Kit) Grey
263370	Moisture Seal 20 Litre (2 Part Kit) Grey
227935	5077 Primer 1 Litre Clear
287032	Ultra NP Primer 4 Litre Green
272496	Ultrarapid Set 20 Kg Grey

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.

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