



technical data sheet

BOSCOSEAL AC3

Fast Drying 2 Part Waterproofing Membrane

PRODUCT

Boscoseal AC3 is a two-part acrylic modified, fibre reinforced, cement based, waterproofing membrane.

DESCRIPTION

Boscoseal AC3 is specifically formulated for commercial and residential internal and external waterproofing applications. Low in odour, it is well suited for internal use and offers excellent, easy application by brush or roller. Boscoseal AC3 is fibre reinforced to increase its strength and does not require the use of additional reinforcing matting. Cement based, Boscoseal AC3 is fast drying, allowing early tiling commencement with compatible tile adhesives. It is not designed for direct foot or vehicle traffic contact.

RECOMMENDED USES

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

FEATURES & BENEFITS

- Low odour for ease of use in internal applications.
- Excellent rolling and brushing ability.
- 10 Year material guarantee.
- Australian made.
- Environmentally friendly.
- Fibre reinforced, does not require the use of additional reinforcing matting.
- Flexible.
- Fast drying - may be tiled after a minimum of 24 hours.
- Water based for easy application and clean up.
- With full tile covering, Boscoseal AC3 is suitable for use in immersion applications.

PACKAGING

Boscoseal AC3 is supplied as a kit in two components.

Part A: 20kg liquid pail

Part B: 2 x 10kg bags of powder in a 20 litre pail.

Each kit will mix to an approximate volume of 30 litres.

COVERAGE

Boscoseal AC3 is always a 2-coat system. Each total mixed kit is designed to provide a 2-coat cover of approximately 20m² per coat. 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

(not to be used for specification purposes)

| | |
|--------------------|-------------------------------------|
| Colour | Light Grey |
| Appearance | Smooth Paste when mixed |
| Drying time | 6 hrs between coats @ 25°C & 50% RH |
| Elongation | 200% Approx |
| Tensile Strength | 1.9 N/mm ² |
| Cure before tiling | Minimum 24 hours @ 25°C and 50% RH |
| Application Temp | +10°C to +35°C |
| Flammability | Non-flammable |
| Pot Life | 4 hours mixed |

IMPORTANT NOTES

It is recommended that the installation of Bostik Boscoseal AC3 be carried out by professional applicators of waterproofing membranes. Installation is to be strictly in accordance with the manufacturer's written instructions. The Bostik Technical Division must approve any modification or variances to these specifications in writing. Read the following notes in conjunction with precautions;

- Commencement of membrane application shall be taken as acceptance of the substrate suitability and preparation by the applicator.
- Ensure necessary primers have been allowed to dry for the minimum recommended period prior to the application of Boscoseal AC3.
- Ensure sufficient Boscoseal AC3 is applied in two coats to achieve a total 1.2mm dried film thickness.
- Ensure recoat times are adhered to between applications. A minimum of 6 hours 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 AC3 must be allowed to fully cure before tiling.

MIXING

- Mixing ratio is (1:1)
- i.e. 1 litre of part A liquid to 1 kg of part B powder.
- A low speed mechanical mixer is recommended for mixing purposes.
- Pre-stir Boscoseal AC3 Part A before commencing.
- Pour a measured amount of the pre-stirred liquid into a clean bucket or the empty Part B pail. Slowly add the required amount of powder while continuously mixing, until achieving a blended, lump free, thick paint consistency.
- Allow to stand for 5 minutes then remixing.
- Boscoseal AC3 is now ready to use.

PREPARATION & APPLICATION PROCEDURE:

1. SUBSTRATE

- **All surfaces must be primed.**
- The application of Boscoséal AC3 must comply with AS3740-1994 "Waterproofing of Internal Wet Areas in Residential Buildings".
- Before the application of Boscoséal AC3 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 Boscoséal 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/VAPOUR BARRIER REQUIREMENT

- Boscoséal AC3 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. Boscoséal AC3 must be applied immediately the second coat 'tacks off'.
- If Boscoséal AC3 cannot be applied within 24 hours of the second coat of Moisture Seal curing, a third coat of Moisture Seal must be applied.

3. PRIMING

- **All surfaces will require priming.**
- All designated primers must be applied in accordance with the current applicable primer technical data sheet.
- **Porous surfaces** must be primed with Bostik AC Primer. Allow AC Primer to dry approximately 30 minutes prior to application of Boscoséal 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.
- For pre-treated or suspect surfaces, contact Bostik technical service.

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 Boscoséal AC3 over the primed area achieving a minimum dry film thickness of 1.2mm.
- Cracks and sheet joints 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 after sealant tack off, to all areas intended for Boscoséal AC3 application.

6. SHOWER MEMBRANE APPLICATIONS

Before commencement, ensure all primer applications are dry.

➤ Walls

- Apply Boscoséal AC3 to the internal wall corners extending out 100mm on each wall of the shower 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.
- 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 Boscoséal AC3 must extend at least 25mm above the height of the hob.
- Apply Boscoséal AC3 to wall surfaces, coating above anticipated shower rose height. Cover all previously coated wall/wall junctions, wall/floor junctions and tap protrusion surrounds.

➤ Shower base

- The shower base is to be fully coated. Boscoséal AC3 must be dressed down into the waste at least 50mm.
- Once the initial coating is dry, recoat the entire area to be waterproofed, including full cover over the initial coating.

7. WET AREA FLOOR & EXTERNAL DECK APPLICATIONS

- 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 stand with Bostik 5077 primer and seal off the perimeter of the penetration with a 10mm bead of Bostik Neutral Cure Silicone.
- Allow all priming to thoroughly dry.
- Apply Boscoséal AC3 into wastes, drains or onto puddle flanges. Boscoséal AC3 must be dressed down into the waste at least 50mm.
- Apply an initial coat of Boscoséal AC3 either side of all wall/floor junctions
- Extend the coating at least 100mm either side of the joins.
- Once the initial coating is dry, recoat the entire area to be waterproofed, including full cover over the initial coating.

8. ROOF APPLICATIONS

Boscoséal AC3 may be used as a waterproof membrane for non-traffic areas. (Application method is the same as for wet area floors/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 mortar bed applications, tiling, or finished flooring installations be carried out as soon as possible after full cure of the membrane. These installations may be carried out after the Boscoseal AC3 two coating system has been allowed to cure a minimum of 24 hours at a temperature of 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.

PRECAUTIONS

- Do not apply where the surface temperature is below +10°C or greater than 35°C.
- Boscoseal AC3 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, 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 AC3 may be necessary if imperfections in the cured membrane are evident.
- The application rate of Boscoseal AC3 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 cementitious powders or other additives.
- Boscoseal AC3 requires atmospheric conditions to cure. It should not be used in totally confined or air free spaces.
- Boscoseal AC3 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.
- Protect the membrane from mechanical damage by rigid sheet plastics (confute) or timber when using in planter boxer or tubs.

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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- Boscoseal AC membranes must not come in direct contact with polyurethane sealants in any application.
- Any intended use of Boscoseal AC3 outside of specified use should be referred to Bostik Technical Services for approval.

P.A.T.S PROGRAMME (Prestested 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.

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 the Boscoseal AC3 Material Safety Data Sheet.

CLEAN-UP

Boscoseal AC3 can be cleaned from skin and application equipment with water while the membrane is still wet.

STORAGE

Store in original sealed containers under cover in dry conditions. Boscoseal AC3 has a shelf life of 12 months in original unopened containers if stored between 5°C and 35°C. Do not freeze Part A.

| Item No | Product | | |
|---------|-----------------------|----------------|-------|
| 301248 | Boscoseal AC1 | 15 Litre | White |
| 301256 | Boscoseal AC2 | 15 Litre | White |
| 298476 | Boscoseal AC 3 Part A | 20 Litre | Grey |
| | Boscoseal AC 3 Part B | 2 x 10 kg bags | |
| 300217 | AC Primer | 20 Litre | White |
| 263362 | Moisture Seal | 8 Litre | Grey |
| 263370 | Moisture Seal | 20 Litre | Grey |
| 227935 | 5077 Primer | 1 Litre | Clear |
| 287032 | Ultra NP Primer | 4 Litre | Green |
| 272496 | Ultrarapid Set | 20 Kg | Grey |



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FOR FURTHER INFORMATION