

Technical Data Sheet

AS-002

Two component acrylic cementitious membrane

DESCRIPTION

AS-002 is a two-component under-tile waterproofing membrane built for speed — it dries fast and cures into a tough film that resists re-emulsification, unlike many acrylic-based systems. It's flexible, low-odour, and pairs well with polymer-modified tile adhesives, so tiling can resume within 16–24 hours of the final coat going on.

A synthetic microfibre blend gives the cured membrane extra strength, which means standard applications don't need a separate reinforcement mat.

FEATURES

- Cures fast enough to tile over within 16–24 hours
- Fibre reinforcement delivers strength without a separate reinforcing mat in standard applications
- Flexes with normal building movement
- Acrylic-based but engineered to resist re-emulsification once cured
- Compatible with polymer-modified tile adhesives
- Water-based, low odour, easy clean-up
- Certified Class III under AS4858 for Wet Area Membranes
- Low VOC formulation

AREAS OF APPLICATION

- Internal wet areas (bathrooms, kitchens, laundries)
- Swimming pools
- Podiums, terraces and balconies
- Drywall, fibre cement, plasterboard, plywood and marine-grade particle board substrates

PHYSICAL PROPERTIES – MIXED PRODUCT

(Values determined at 27 ± 1°C)

Mixing Ratio	1 : 1 by weight (Powder : Liquid)
Mixed Density	1.4 kg/litre
Mixed Solid Content	75% (ASTM D1644)
Colour	Light grey / green

PERFORMANCE – CURED MEMBRANE

Shore A Hardness	~ 60 (ASTM D2240)
Elongation at Break	≥ 300% @ 14 days (ASTM D412)
Crack Bridging Capacity	No cracks observed up to 2.8 mm (BS EN 1062, Part 7)
Tensile Strength	≥ 1.5 N/mm ² @ 14 days (ASTM D412)
Adhesion to Cement Substrate (with primer)	> 1.0 N/mm ² (ASTM D4541)
Tear Strength	0.40 N/mm ² (ASTM D1004)
Water Absorption	1.60% (ASTM D5147)
Cyclic Movement	Pass (10 cycles) (ASTM C1305)
VOC Content	25 g/L

COVERAGE ESTIMATES

Approx. 16–24 m² per 40 kg pack at 0.8–1.2 mm total dry film thickness, applied in two coats.

Location	Dry Film/Coat	Wet Film/Coat	Total Dry Film	1-Coat Cov.	2-Coat Cov.
Floors	0.6 mm	0.9 mm	1.2 mm	32 m ²	16 m ²
Walls	0.4 mm	0.6 mm	0.8 mm	48 m ²	24 m ²

PACK SIZE

Total Kit	40 kg
Powder Component	20 kg
Liquid Component	20 litres



Application Instructions

SURFACE PREPARATION

The substrate must be dry, clean, structurally sound and free from oil, grease, wax, polish, laitance, dust and any other materials that could act as a bond breaker.

Voids and bore holes in vertical surfaces should be made good using a high-strength, non-shrink cementitious precision grout (JC-B30). Voids in horizontal surfaces, and any covings required, should be formed using a polymer-modified mortar gauged with an SBR-based bonding agent (AS-SBR).

A water ponding test should be carried out to identify cracks and construction joints prior to application. Any cracks or joints found should be treated as described below before proceeding with the membrane application.

CRACK & JOINT TREATMENT

- Cracks/joints up to 2 mm: clean out loose material, prime a 200 mm wide band over and around the crack, and allow the primer to dry before applying AS-02.
- Cracks/joints 2–6 mm: clean and prime a 300 mm wide band, fill the crack with a neutral-cure silicone sealant extending 6 mm either side, apply a coat of AS-02 over the primed area and immediately embed a 200 mm wide strip of compatible polyester reinforcement mat into the wet membrane, working out all creases and air pockets, then apply a second coat to fully encapsulate the mat.
- Cracks/joints over 6 mm: follow the same procedure as above but use a wider reinforcement bandage (approx. 120 mm) in place of the standard reinforcement mat.

Note: where tiling over a movement joint, the joint should be carried through to the tile surface and finished with an appropriate flexible joint sealant.

MIXING

Thoroughly stir the liquid component and pour into a clean mixing vessel. Slowly add the powder component while mixing with a spiral paddle on a slow-speed drill, continuing until a smooth, homogeneous, lump-free consistency is achieved.

CORNERS, TURNINGS & CUT-OUTS

On drywall substrates, ensure all panel joints, wall-to-floor junctions and cut-outs are sealed with a bead of one-part PU sealant, tooled smooth and allowed to cure before treatment begins.

Once the primer has dried, apply AS-02 over all corners, turnings and cut-outs and immediately embed a compatible reinforcement strip into the wet membrane, pressing out all creases and air pockets with a roller. Apply a second coat of AS-02 to fully encapsulate the reinforcement.

APPLICATION

Apply the first coat of AS-02 over the primed surface using a suitable brush or roller. Allow this coat to dry (typically 4–6 hours at 27°C / 75% RH) before applying a second coat in the opposite direction to ensure full and even coverage.

Allow the membrane to dry and cure fully before tiling or applying subsequent finishes.

CURING

AS-02 reaches full cure after approximately 3 days at 27°C. Wet areas (e.g. showers) should not be brought into use, and ponding tests should not be carried out, until the membrane has fully cured.

CLEANING

Clean tools and equipment with water while the material is still fresh. Cured material can only be removed mechanically.

DISPOSAL & SPILLAGE



Any spilled material should be absorbed onto sand or other inert material and placed into a suitable container for disposal. Dispose of spillage and empty packaging in accordance with local waste disposal regulations.

STORAGE, SHELF LIFE & SAFETY

AS-02 has a shelf life of 12 months from date of manufacture when stored in a dry, covered area between 5°C and 30°C in original, unopened packaging, protected from direct sunlight, frost and sources of heat.

Ensure adequate ventilation during mixing and application. Avoid contact with eyes, skin and mucous membranes; wear suitable protective gloves and eyewear. In case of eye or skin contact, rinse immediately and thoroughly with clean water. Refer to the Material Safety Data Sheet for full handling and first aid information.

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