

CANPROOF 3CL

CANPROOF 3CL PRODUCT DATA

DESCRIPTION:

Canproof 3CL is an ultra-rapid cure two-part Acrylic-cement waterproofing membrane product specifically designed for internal under tile waterproofing applications. This product is exclusively designed and manufactured in Australia for Australian conditions. Canproof 3CL has been independently tested in NATA certified laboratory to meet Class III - AS 4858 and AS 4564.1 certification for wet area membranes.

BENEFITS:

- Can be tiled over in 4 – 6 hours or less.
- Designed and manufactured in Australia.
- Class III membrane - AS 4858 and AS 4564.1 certification.
- Fully compatible with Polymer modified tile adhesives.
- Allows for shortened tiling programs.
- Application by brush, roller, or spray.
- Non-toxic, low odour formulation.
- Extremely low water absorption.
- Crack bridging capability.

PROPERTIES:

Shelf Life	12months if stored in original unopened packaging in a dry place at 20oC.
Mixed State	Density-1.15 kg/litre
	pH 11
Yield	16m2 / kit at 2 coats of 1.1mm wet film thickness.

APPLICATION PRECAUTIONS:

Preferred coating temperatures are between 10°C and 35°C

- Do not apply where substrate moisture contents exceed 15% as measured with an electronic moisture meter.

PACKAGING:

Part A - 20 litre pail containing 20kg of liquid.

Part B – bag containing 20kg of powder.

SUBSTRATES:

- Concrete- Steel trowel or helicopter finish with a minimum of 7-day cure. Surface is to be free from ponding, bleed water, contamination, or efflorescence.
- Application of membrane to damp concrete is to be referred to the Canproof Technical department.
- Concrete surfaces are to be steel towel finished and present as a non-dusting surface.
- Porous surfaces can be sealed with Canprime LA primer / sealer.
- Allow overnight cure for tile screeds.

- Concrete blockwork - surfaces are to be bagged and then primed and sealed with Canprime LA primer or sealer. For highly porous surfaces double priming may be required

APPLICATION:

Canproof 3CL consists of two components, a dry powder mix and a liquid polymer which are blended using a dedicated **high shear dispersion blade** attached to a power drill or similar.

The Part A liquid polymer is to be agitated with the high shear mixing blade to ensure uniformity and correct viscosity.

The powder component is to be added in a slow and continuous method to the liquid component under constant agitation using high speed dispersion blade, producing a uniform and lump free mixture. The ratios of the components should be strictly adhered to regardless of the application method.

Brush / Roller application:

All floor to wall and hob to wall joints must have a 35mm wide bond breaker sealant of Canproof Sealent prior to installation of the Canproof 3CL membrane. All expansion and movement joints should be treated with the appropriate Canproof 3CL sealant, based on joint expected movement requirements, and applied to the correct width to depth ratio (2:1). A closed cell polyethylene bond breaker tape must be used prior to sealant installation to prevent 3 sided adhesion.

Two coats of 1.1mm wet film thickness as measured with a wet film thickness comb. The final coat is to be applied over the base coat after initial set.

Only mix sufficient material that can be applied within the 60-minute pot life.

Temperatures above 35°C or excessively dry and windy conditions should be

avoided for best application. Application should also be avoided when rain or wet conditions are forecast.

The substrate, to be coated, should be vacuumed and free from defects before application.

Damping down of concrete substrates during hot and windy conditions is advised.

For very porous substrates, a primer coat is to be applied to reduce the risk of pin holing and to eliminate absorption of the membrane into the substrate. Dry time of the primer is @ 10-15 minutes depending on ambient conditions. The primer should be coated at 5-10m²/kg.

All surfaces should be structurally sound. Damaged concrete repaired, and large surface cracks treated prior to application.

Spray application:

The dry powder mix and liquid polymer are to be blended using the dedicated high shear dispersion blade attached to a power drill or similar.

The powder component is to be added in a slow and continuous method to the liquid component under constant agitation for 5 minutes to ensure complete dispersion of the powder.

The product is to be introduced to the spray equipment hopper through a 500-micron monofilament filter bag to eliminate any undispersed powder component that may cause spray tip blockages.

The recommended spray equipment is a Graco S430e positive displacement mix / spray render unit fitted with a 4.0mm spray nozzle and a 3.2mm flat fan spray tip.

Canproof 3CL is to be applied in a continuous multi pass spray operation to achieve a minimum 1.0mm wet film thickness / coat.

A second coat of 0.8mm wet may be applied after the first coat is touch dry.

The second coat is to be applied after the initial set. (@ 1-2 hours depending on ambient conditions)

Substrate cracks:

Static cracks should be cleaned, and all loose particles removed. The exposed surface should be treated with Canprime LA.

For larger cracks more than 2mm, the crack is to be saw cut, blown out with compressed air and sealed with a single pack polyurethane mastic sealant. Then, together with Canproof 3CL membrane, a 100mm wide band of Canproof Deckweb should be applied. Once all creases and air pockets have been removed a second coat of Canproof 3CL should be applied.

Corners, coves, and floor / wall junctions:

All floor to wall and hob to wall joints must have a 35mm wide bond breaker sealant of Canproof Sealent prior to installation of the Canproof 3CL membrane. All expansion and movement joints should be treated with the appropriate Canproof 3CL sealant, based on joint expected movement requirements, and applied to the correct width to depth ratio (2:1). A closed cell polyethylene bond breaker tape must be used prior to sealant installation to prevent 3 sided adhesion.

All construction of internal wet areas is to be in accordance with AS 3740; 2021. Seal and caulk all internal floor / wall joints, penetrations, and changes of direction with a fast cure, single part, moisture cured polyurethane mastic sealant and allow to cure.

For wall/floor junctions ensure the sealant forms a 10mm x 10mm cove up the wall and along the floor.

Drying and recoat times:

The membrane will be dry to the touch and able to be recoated within @ 30 minutes at 20°C, or 15 minutes at 30°C.

Initial cure will occur between 2 and 4 hours depending on ambient conditions.

Second coats can be applied once the initial coat is touch dry (walls) or after initial cure (floors). The membrane will cure overnight or within 24 hours dependent on ambient conditions.

TECHNICAL DATA:

Liquid	Blue / White liquid with viscosity 200Cps
Powder	Cream
Mixed product	Grey coloured liquid.
Cured product	Beige coloured coating.
Mixing ratios	1.0-part liquid: 1.0-part powder by weight
SG of mixed products	1.15 kg/litre
Cured film properties	AS-4858:2004 and AS 4564.1
Cyclical movement	Pass
Water absorption	0.9% (Pass)
Water vapour transmission	Pass 0.49g/m ² 24 hrs
Heat Ageing	Pass
Movement joint test	Pass

Abrasion	0.082mm /1000 cycles. (AS.1580.403.2)
Elongation	696%. (Class III)
Adhesion	98.61N (ASTM- C794 Angle tear)

SAFETY DATA:

Please refer to SDS. Components are classified as non-hazardous.