

# DURO MASTIC™ ACS-3

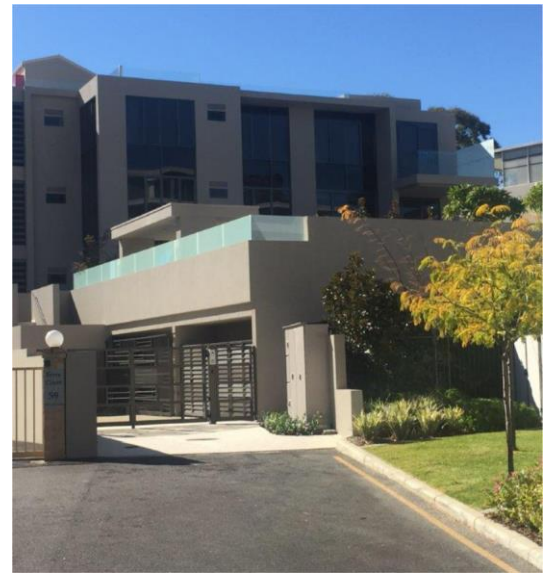
Class III Cement – Based Over 800% ELONGAITONS THE WORLD MOST FLEXIBLE 2 PART CEMENTIOUS MEMBRANE

## Technical Data Sheet

DUROMASTIC™ACS-3 is a two-part high solids liquid / cement copolymer membrane with fibre reinforcement. DUROMASTIC™ACS-3 cures rapidly to form a flexible waterproof lining for showers and other wet areas as described in Australian Standard AS3740:2004 "Waterproofing wet areas within residential buildings". It complies with AS4858:2004 "Wet Area Membranes". ACS-3 is particularly suitable for applications where polymer modified render will be applied or in conditions where other water based waterproofing products have difficulty in drying due to excessive humidity and coolness.

DUROMASTIC™ACS-3 forms a waterproof lining to most building materials including reinforced concrete, cement render, water-resistant plaster board, and compressed cement sheeting, etc. The surface must be fixed according to manufacturer's directions and must be clean and dry.

DUROMASTIC™ACS-3 is suitable for external use on light pedestrian trafficable decks, parapets and flashings. Top coat with Duroarmor™ for UV resistance.



### Principal Characteristics:

- Simple application, water based
- Fast drying
- Good flexibility
- Seamless, no joints or cracks
- Environmentally friendly
- Good resistance to foot traffic

### Use Areas:

- Showers and internal wet areas
- Decks
- Balconies

### **Packaging:**

- 15 KG Polymer + 10KG powder yielding approximately 25 KG of membrane.

### **Technical Information:**

Colour	Green Grey (Dry)
Weather resistance	Good
Dry Time	Approx 3hrs @ 20°C, 0.8mm WFT
Recoat Time	2-4 hours @ 25°C
Coverage	Min. 2 coats, each at 0.8 litres/m <sup>2</sup> [1.2 m <sup>2</sup> /L]
Wet Film per coat	0.8mm. Use within 5 hrs of mixing.
Dry Film Thickness	1.2mm min. total
Elongation at break	800% at 25°C
Moisture Vapour Transfer	3.56 g/m <sup>2</sup> /24hrs
Solids Contents	75% by volume with powder, depending on mix ratio
Shelf Life	Polymer 12 months. Powder: 4 months in fully sealed container at 20°C and 50% R.H.

### **Application:**

Floor wastes in concrete should be cut to floor level with no up stands. For sheet flooring, leak control flanges shall be fitted by the plumber to allow water to drain down into the waste pipe. These shall be etched primed.

Remove all dirt, dust, plaster droppings, protrusions, oil and contamination. Fill screw holes, with Neutral Cure Sealant.

To joints in sheet flooring, wall/floor junctions wall/wall junctions and all hob junctions, apply 5mm neutral-cure silicone sealant as a bond breaker. Vertical joints should extend 75-100mm from floor and to finish 50mm above F.F.H (e.g. top of tiles) Apply sealant around floor penetrations, tap flanges and other protrusions.

1. Remove all dirt, dust, plaster and cement droppings, protrusions, oil and contaminants. Fill screw holes and any voids with Durotech neutral cure silicone sealant.
2. Apply neutral cure silicone sealant to all horizontal joints within the area to be waterproofed. To all wall/floor and wall/wall junctions, apply approximately 12mm bead of neutral cure silicone as a bond breaker. Apply sealant around floor wastes, tap fittings and other penetrations. Floor wastes in concrete are to be cut level with the floor. For sheet flooring, leak control flanges must be recessed and fully sealed.
3. Prime internal surfaces with DUROTECH AR or DUROTECH ARW Primer. Prime external surfaces with DUROMASTIC™ WBE or Hibuild WBE. Allow to dry. Prime all PVC fitting with plumbing PVC primer.
4. Fill non-moving and hairline cracks with a brush coat of DUROMASTIC™ ACS-3. Moving cracks above 1mm shall be routed out, cleaned and filled with silicone sealant. Apply a polyester reinforcing bandage embedded in DUROMASTIC™ ACS and allow to dry.
5. For sheet flooring joints, apply a 200mm wide reinforced bandage of polyester fabric embedded in DUROMASTIC™ ACS and allow to dry. Ensure joint movement is not beyond the elastic limits of the membrane.
6. Mix powder component into half the liquid until smooth, stand 5 minutes, restir and add the remainder of the liquid.

DO NOT beat in air. DO NOT add water to mixture before or during use.

Apply two or more coats of DUROMASTIC™ ACS-3 to the floor and coved areas to ensure a minimum dry film thickness of 1.2mm. Apply one or two coats to wall areas above the shower tray to a dry film thickness of 0.5mm.

Use a brush or short nap roller for walls. Ensure the membrane is turned down into the floor waste or well-sealed around the leak control flange and other penetrations. Ensure flashing angles are properly sealed across doorways. Check for pinholes, misses or cracks in the membrane when dry and rectify.

#### **Flood Test & Tiling:**

A flood test may be carried out after 72 hours of drying, at 25°C, 50% R.H. Apply water to a depth of 25mm for approximately 2 hours.

DURO MASTIC™ ACS-3 may be tiled over after 3-4 days at 25°C, 50% R.H., using a quality cement based tile adhesive installed as per AS 3958.1.

#### **Application:**

Do not apply above 30°C or below 10°C. Areas subject to rising damp or back pressure should be first sealed with an epoxy coating such as DUROMASTIC™ WBE or Hibuild WBE (Water Based Epoxy). Cold damp conditions retard cure, allow plenty of air flow to aid drying. Do not apply excessive thickness to internal corners, or shrinkage cracking may occur. Where there are sharp corners, application of a cove of silicone sealant will help avoid any surface cracks. Make sure that the membrane is fully cured before tiling over, normally 1-3 days. Protect membrane against damage before and during tiling. Do not apply more than 1.2mm DFT or reduced flexibility will occur. Do not expose to solvents. DUROMASTIC™ ACS-3 is suitable for tiling over.

Ensure the powder component is sealed and stored in dry conditions at all times before use.