

# DP-70

## ONE PART \* FAST CURE \* POLYURETHANE MEMBRANE

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### Description

Danlaid DP-70 one-part, fast cure, versatile polyurethane rubber based waterproofing. DP-70 is a safe, easy to use coloured elastomer, designed for the installation of high performance waterproof barriers.

### Uses

Danlaid DP-70 can be used for bathrooms, shower trays, laundries, balconies, roof decks, sill or window flashings, retaining walls, planters, ponds, water features and landscaped areas. It can be applied to most surfaces.

### Features

- Simple application and fast cure
- Quick access for tilers and finishes
- Waterproof - resists ponded water
- No toxic tar or bitumen compounds
- Permanently flexible - total adhesion
- Immediate Resistance to rain damage
- Single pack, ready to use - no mixing
- Multi-purpose - high-build
- Forms a one-piece membrane barrier
- Will not become brittle with age
- Is self flashing – no metal cover detail
- Complies with AS3740
- Systems for Total Project Specification

DP-70 is a true elastomer, does not contain Portland cement, tar or bitumen.

DP-70 is engineered to allow application by “flood coating”.

### Typical Properties

Composition	Polyurethane Elastomer
Solids Content w/w	83%
Service Temperature	-10°C to 80°C
Cure Time - ready for Flood Test, tiling, topping	8 - 12 hours
Tensile Strength (AS1145)	3 MPa
Elongation (AS1145)	400%
Moving Joint Test	Passed (CSIRO)
Immersion (AS1145)	Passed (Water, bleach, detergent)
Peel Test (AS1526)	Concrete = 120NFibre Cement = 100N
Permeance (ASTM E96)	6.8 mg/mm/m <sup>2</sup> /24 hrs
Accelerated Weathering	Yellows

### Preparation

Surfaces to be waterproofed must be sound, smooth and free from dust, loose matter, oil, grease or other contaminants. Concrete should be cured 28 days and render 7 days.

All surface defects shall be repaired using Danlaid polymer modified mortar.

Use low modulus polyurethane sealant to fill joints, cracks, and gaps and form angle fillets to internal corners or penetrations.



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### Application

#### Priming

Use Danlaid Water Based Epoxy on damp or green concrete. Roughen any stainless steel or PVC surfaces. To inhibit out-gassing (pin-holes) and seal dusty or porous surfaces, use DP-70 diluted equal parts with Xylene at 8-10m<sup>2</sup>/litre.

#### Detailing

Detail all joints, cracks, outlets, penetrations and internal corners with a 150mm strip of reinforcing mat embedded between two heavy coats of DP-70 centred over the joint. Apply a heavy brush coat to any shrinkage cracks.

#### Application of Continuous Membrane

Apply Danlaid DP-70 membrane liberally by brush, squeegee, roller or spray in two or more coats to desired uniform membrane thickness. Allow to dry fully between coats. Application of DP-70 membrane "flood-coat" layer does not usually require use of any fabric or glass fibre mat.

#### Surfacing

The finished Danlaid DP-70 membrane may be subjected to foot traffic 10-12 hours after installation. Following surfacing systems may be used for specific situations listed. Such covering materials shall be installed only after the DP-70 membrane system has fully cured.

#### Tiles

- Ceramic tiles may be laid on a mortar bed or otherwise fixed directly with a suitable polymer based adhesive.

#### Tanking

- Cover with suitable membrane protection or geo-composite drainage cell followed by backfill or landscaping.

#### Other Rigid Surfaces

- Use a 0.2 mm PE slip-sheet under all concrete toppings.
- Paving slabs on support pads, shims or mortar bed.
- Polymer modified render or textures.

#### Decorative Coatings

- Apply high build coating exterior acrylic paints, roll-on texture finishes or cover with polypropylene synthetic grass, glued or sand filled.

#### Insulated - Thermally

- Use an appropriate closed cell insulation board to provide thermal insulation.

#### Insulated - Acoustically

- Use suitable sound deadening system under tiles or paving to give required acoustic value.

### Coverage

#### General

- Balconies, roof decks, retaining walls and planters – 1.25 litres/m<sup>2</sup>.

#### Wet Areas

- Floors – 1.5 litres/m<sup>2</sup> @ 1 mm dry film thickness.
- Walls – 0.4 – 0.5 litres/m<sup>2</sup> @ 0.3 mm dry film thickness.

#### Packaging

Danlaid DP-70 is packed in 20 litre pails.

#### Clean Up

Use Xylene solvent or methylated spirits to remove DP-70 before curing. Exercise care when using solvents.

#### Shelf Life

Sealed pails of Danlaid DP-70 have a shelf life of approx. 6 months, but once opened can become solid within a few days.

#### Safe Handling

Review MSDS - use protective equipment and an approved organic vapour respirator.

Statements made in this bulletin are for the assistance of our customers. They are based on our experience and judgement but must not be regarded as amounting to a legal warranty or as involving any liability on our part.

for further information please contact:

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