

# Proflex TF

## Approved Fast Cure Polyurethane Waterproofing Membrane

### Description

Proflex TF is a bitumen and tar-free, one-part, fast cure, high quality, pure polyurethane rubber membrane. A versatile, safe, easy to use coloured elastomer providing long life, flexible, waterproof barriers for construction use. It is CSIRO certified Class III rating.

### Uses

Proflex TF is suitable for most areas of waterproofing in commercial and residential design. It can be used on all stable substrates including concrete, fibre cement sheet, CFC, ALC, precast panels, concrete masonry, brick, render, metals and plastics.

Proflex TF is used for bathrooms, shower trays, laundries, balconies, roof decks, sill or window flashings, retaining walls, planters, ponds, water features or landscaped areas.

### Features

- Simple application and fast cure
- Quick access for tilers and finishes
- Waterproof - resists ponded water and will not soften or re-emulsify
- Has total adhesion and prevents water migrating under membrane
- 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
- Self-flashing – no metal cover required
- CSIRO approved to AS3740:2004 by TA 57 for "Waterproofing of wet areas" and also to AS/NZS4858:2004 Class III - Report 3683.3.
- Compliant with AS4654 "waterproofing of external areas", as a Class III membrane

Proflex TF is a pure polyurethane elastomer. It does not contain bitumen or tar.

Engineered to allow "flood coating", without multi-layering and reinforcing mat.

Guaranteed when used in with Chemind Chem-Fix Super two-part rubber based ceramic tile adhesive.

Design a Total Waterproofing Envelope package with Chemind and Grace waterproofing systems.

### Typical Properties

|   |   |
|---|---|
| Composition                                       | Polyurethane Elastomer                        |
| Colour  | Grey  |
| Solids Content w/w                                | 83%   |
| Cure Time - ready for Flood Test, tiling, topping | 8 hours                                       |
| Service Temperature                               | -10 °C to 80 °C                               |
| Tensile Strength (AS4858)                         | 1.6 MPa                                       |
| Elongation (AS4858)                               | 750% Class III                                |
| Immersion Durability (AS/NZS4858)                 | Passed (Water, bleach, detergent) = Class III |
| Peel Test (AS1526)                                | Concrete >120N<br>Fibre Cement >100N          |
| Moving Joint Test                                 | Passed (CSIRO AS4858)                         |
| WVTR (AS/NZS4858)                                 | 3.34g/m <sup>2</sup> /24 hrs                  |
| Accelerated Weathering                            | Excellent (Yellows)                           |

### Preparation

Surface must be sound, smooth and free from dust or contaminants. Concrete should be cured 28 days and render 7 days. Fill joints, cracks, gaps and form fillets to internal corners or penetrations with Chemflex LM PU sealant.

Detailing and installation work is designed to meet requirements of AS3740 "Waterproofing of wet areas within buildings" and AS4654 "Waterproofing of External areas".

### Bond Breaker

Install 12mm Chemind Chemflex LM as bond breaker in accordance with AS3740 for AS/NZS4858 Class III membrane. Allow all detailing work to skin cure before proceeding with general membrane installation.

### Application

#### Primer

To inhibit out-gassing (pin-holes) on porous surfaces, use Aquagard M Clear Primer or Proflex TF diluted with 1-2 parts Chemind GP Solvent at 8-10m<sup>2</sup>/litre and allow to dry. Seal damp concrete with Chemind Epocote F100W. Roughen PVC or stainless steel.

## Detailing

Treat wet areas as required by the BCA and AS3740:2004 (see [Bond Breaker](#)).

Seal external high stress movement joints, penetrations, etc with a 150mm strip of Chemind Reinforcing Fabric embedded between two heavy coats of Proflex TF.

## Application of Continuous Membrane

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

## Surfacing

Install surfacing systems only after Proflex TF system has fully cured:

- [Exposed](#)

Proflex TF is UV resistant but may be protected with Chemind Aquagard M Topcoat at the rate of 12 m<sup>2</sup>/litre on turn-ups and on roof decks with service traffic only.

- [Tiles](#)

Lay on a mortar bed or fix directly with Chemind Chem-Fix adhesive.

- [Tanking](#)

Protect with Chemind Protectoboard, Protectodrain or use Chemind Rapid-Drain filter cell composite to facilitate drainage in planters or landscaping.

- [Other Rigid Surfaces](#)

Use a 0.2 mm polythene slip-sheet under all concrete toppings.

Paving slabs may be laid on Chemind Multi-Pads, bedding sand or a mortar bed.

- [Decorative Finishes](#)

Use Chemind Epocote F100W to seal surface then apply:  
Chemind Blockflex high build coating  
Premium quality exterior acrylic paints or textures  
Synthetic grass, glued or sand filled

- [Insulated - Thermally](#)

Use Chemind Insul-Foam closed cell Insulation board to provide required thermal insulation.

- [Insulated - Acoustically](#)

Use Chemind Sound-Shield sound deadening system under floor tiles, etc. to give required acoustic value.

## Coverage

|                     |                               |            |
|---------------------|-------------------------------|------------|
| Generally:          | 1.25 – 1.5 lit/m <sup>2</sup> | 1 mm DFT   |
| Internal Wet Areas: |                               |            |
| Floors              | 1.25 – 1.5 lit/m <sup>2</sup> | 1 mm DFT   |
| Walls               | 2 – 3 m <sup>2</sup> /lit     | 0.3 mm DFT |

## Packaging

Proflex TF is packed in 20 litre pails.

## Clean Up

Use Chemind GP Solvent before curing. Exercise care when using solvents. Review product MSDS.

## Shelf Life

Sealed pails of Proflex TF have a shelf life of approx. 6 months, but once opened contents may become solid within a few days.

## Safe Handling

Review product MSDS and use PPE as required.



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