

# Bituthene Mastic Membrane

## FAST CURE DETAILING AND FLASHING SEALANT

### Description

Bituthene Mastic Membrane is one-part, high performance, fast curing, high solids, polyurethane rubber polymer. It is specifically formulated for use with all Grace Bituthene® and Preprufe® sheet membrane applications.

### Uses

Bituthene Mastic Membrane eliminates need for complex and expensive detailing of Grace Bituthene® and Preprufe® sheet. It can be used to seal and cover-flash outlets and penetrations; provide secure detailing to footings, beams and pile caps; as composite membrane structure to parapets, plinths, columns and partition walls. Suitable for all locations – wet areas, balconies, roof decks, sill or window flashings, retaining walls, planters, ponds, water features and landscaped areas. It will bond securely to most surfaces.

It is also suitable as a high performance stand-alone waterproofing membrane.

### Features

- Simple application and fast cure
- Eliminates need for metal cover flashings
- Fully waterproof detail can be applied to the most difficult areas
- Provides a seamless waterproof barrier that prevents tracking of water
- No hazardous level of toxic substances
- Permanently flexible - total adhesion
- Immediate Resistance to rain damage
- Low odour and non-stain
- UV resistant surface
- Will not become brittle with age

Bituthene Mastic Membrane is a high solids, pure elastomer, not a filled tar or bitumen compound.

### Typical Properties

Composition	Polyurethane Elastomer
Solids Content	92%
Service Temperature	-10°C to 80°C
Cure Time - ready for Flood Test, tiling, topping	8 hours
Tensile Strength (AS1145)	2 MPa
Elongation (AS1145)	600%
Moving Joint Test	Passed (CSIRO)
Immersion (AS1145)	Passed (Water, bleach, detergent)
Peel Test (AS1526)	Concrete = 167N Glass = 53N
Permeance (ASTM E96)	5.9 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 Chemind Chembond modified mortar.

Use Chemind Chemflex LM PU sealant to fill joints, cracks, gaps and form angle fillets to all internal corners or penetrations.

### Application

#### Priming

Bituthene Mastic Membrane is self priming. For damp or "green" concrete, use Chemind Epocote F100W or Chemcote W. Roughen surface of any PVC or stainless steel pipes or fittings to ensure strong mechanical bond.

## Application (cont)

### Generally

- Carry out application of the Bituthene Mastic Membrane **before** installation of the Grace Bituthene® or Preprufe® sheet membrane.
- Allow Bituthene Mastic Membrane to fully cure 12 hours before laying Bituthene® or Preprufe® membrane.
- After installing the Grace Bituthene® or Preprufe® membrane, apply a full brush coating along the edge of the sheet membrane overlapping onto each surface by 50mm.
- Detail all joints, cracks, penetrations, outlets, and internal corners with a 150mm wide strip of Chemind Reinforcing Fabric embedded in two heavy coats of Bituthene Liquid Mastic Membrane and centred over joint or junction.

### Application to Outlets and Penetrations

- Apply Bituthene Mastic Membrane liberally by brush, roller or squeegee in two or more coats to desired uniform membrane thickness. Allow to dry fully between coats.

### Application of Continuous Membrane

- Apply Bituthene Mastic Membrane liberally by brush, roller or squeegee in two or more coats to desired uniform membrane thickness. Allow to dry fully between coats.

### Perimeter Detail

- After installing the Grace Bituthene® or Preprufe® membrane, apply a full brush coating along the edge of the sheet membrane overlapping onto each surface by 50mm.

## Surfacing

Covering materials shall be installed only after the Bituthene Mastic Membrane has fully cured.

### Decorative Finishes

Use Chemind Epocote F100W grey to seal surface. Apply Chemind Blockflex high build coating, any exterior grade exterior acrylic paints or roll-on textures.

### Render

Use Chemind Chembond polymer modified render as directed.

## Coverage

Usage will vary depending on surface and the situation. Allow:

**General Detailing** - 1.5 litres/m<sup>2</sup>.

**Continuous Membrane Cover** - 1.25 – 1.5 litres/m<sup>2</sup> to give 1.0 – 1.25mm dry film thickness.

## Packaging

Bituthene Mastic Membrane is packed in 15 litre metal pails.

## Clean Up

Use Chemind GP Solvent or methylated spirits before curing. Exercise care when using solvents and review MSDS.

## NOTE

Use impervious gloves, chemical goggles and protective clothing. If using in areas with limited ventilation, wear a respirator fitted with an "A Type" filter cartridge suitable for organic vapours.

## Shelf Life

Unopened pails have a shelf life of approx. 6 months, but once opened will become solid within a few days.



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