

# Hydroflex

## General Purpose Waterproofing Membrane

### Description

A general purpose, single-pack, bitumen modified liquid synthetic rubber membrane, specifically developed for multi-purpose waterproofing use in construction.

### Uses

Hydroflex is used as a general-purpose membrane on basement and retaining walls, sill and window flashings, planter boxes, wet areas and landscaped areas.

It is used on beam edges, as a general purpose damp proofing sealant, a vapour barrier to precast and tilt-up concrete panels, a protective barrier coating to key joints and dowel bars.

Hydroflex is also used to detail perimeters, penetrations and provide over flashing to Grace Bituthene<sup>®</sup> self-adhesive sheet membranes.

### Features

- No toxic or hazardous ingredients.
- Water clean-up & low odour.
- Simple application & fast cure.
- Non-staining.
- Total adhesion - no water tracking.
- Permanently flexible.
- Waterproof - resists ponded water.
- Single pack - no mixing.
- Economical, multi-purpose use.
- Can be applied directly to damp surfaces.
- Forms a thick, seam free homogeneous barrier.
- Complies with AS 3740.
- Not damaged by temperature extremes.
- Readily coated with water based paints.
- Resists root penetration in planters.

### Typical Properties

Colour	Black
Appearance	Soft Thixotropic Paste
Solids Content	55%
S.G.	1.0-1.05 g/ml
Surface Dry Time	2 hrs (0.4mm wet @ 70°C)
Tensile Strength (AS1526)	300 kPa
Elongation	500%
Permeance (ASTM E96)	3 g/mm/m <sup>2</sup> /24 hrs
Accelerated Weathering (ASTM D822A)	No effect
Adhesion (porous surface)	Very Good

### Preparation

Surfaces to be sound clean, free from dust, loose matter, oil, grease or contaminants.

Seal penetrations or outlets, fill joints, cracks or gaps and form fillets to internal corners with paintable acrylic sealant.

Hydroflex may be applied to damp surfaces and uncured concrete, but there must be no free water present. Do not apply when rain is expected.

### Application

#### Priming

Seal dusty or porous surfaces with Hydroflex diluted with equal parts of clean water.

#### Detailing

Detail all internal corners, joints, cracks, outlets and penetrations with strip Chemind Reinforcing Fabric. The fabric should be bedded between heavy coats of Hydroflex and centred over the joint. Allow to dry completely before continuing.

## Application of Continuous Membrane

Apply first full coat of Hydroflex membrane and work it into the surface to fill pores and hair cracks. Subsequent coats should be applied in a cross direction to the previous and not brushed out.

Hydroflex may be applied by brush, broom, roller or spray. Equipment should be cleaned with water regularly to reduce clogging. Two or three coats will be required to achieve a uniform and effective waterproof barrier.

Allow to dry fully between coats.

## Note

- Do not put solvent-based sealants, adhesives or coatings in contact with Hydroflex.
- Use Chemind Chem-Fix adhesive to bond ceramic tiles or rigid paving directly to Hydroflex.
- Allow 10 mm expansion joints in topping or paving at perimeters and at 5 m intervals and fill with acrylic sealant.
- Use with Chemind Reinforcing Fabric to seal perimeters, penetrations or outlets to Grace Bituthene<sup>®</sup> membranes.
- Contact Chemind Construction Products Technical Department for any job specific requirements.

## Surfacing

Hydroflex membrane is UV resistant but should be covered within 7 days of installation. Protect Hydroflex installed on horizontal surfaces from site damage using Chemind Protectoboard. Use the following surfacing or protective systems for specific situations as listed.

Apply surfacing materials only to fully cured Hydroflex.

- Tanking
  - ♦ After 48 hours full cure cover with Chemind Protectoboard, Protectodrain or Rapid Drain followed by backfill or landscaping.
- Topping
  - ♦ After 48 hours full cure, use a 0.2 mm PE slip-sheet followed by concrete topping, paving, ceramic tiles, polymer modified render or roll-on high-build acrylic texture coatings.
- Coatings
  - ♦ After 48 hours full cure apply Chemind Blockflex or other premium quality exterior grade acrylic based coating or texture.

## Coverage

Coverage will vary according to surface texture and porosity. Minimum total usage rate will be 1 litre/m<sup>2</sup>.

## Packaging

Hydroflex is packed in 15 litre pails and 200 litre drums.

## Shelf Life

Unopened or resealed pails of Hydroflex has a shelf life of 2 years, when stored in a dry, cool place.

## Clean-up

Remove uncured Hydroflex from equipment with water. Mineral turpentine is used to remove any cured product. Exercise care when using solvents. Please review all MSDS before use.



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