

Hydroflex

General Purpose Waterproofing Membrane

Description

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

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 may be 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 may also be used to provide waterproof over flashing detail to WR Grace Bituthene® self-adhesive sheet membranes at penetrations, outlets and perimeters as well as top edge cover flashing on basement retaining walls.

Features

- Complies with **Green Star** requirements
- VOC Level 0.16%
- Water clean-up, simple application, fast cure
- Non-staining, permanently flexible
- Compatible with Chemind water based membranes
- Total adhesion - no water tracking
- Waterproof - resists ponded water
- Economical, multi-purpose use
- Can be applied directly to damp surfaces
- Forms a seam free homogeneous barrier
- Designed to comply with the requirements of AS 3740 and AS/NZS 4858 for a Class III membrane
- Not damaged by temperature extremes
- Resists root penetration in planters
- Compatible with Chemind Chem-Fix tile adhesive

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

NOTE

Do not use for pools or water features. Contact Chemind Technical Department for advice in such applications.

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 ² /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 a paintable acrylic or paintable silicone sealant. Do not use polyurethane based 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.

Bond Breaker

Use paintable silicone or acrylic sealant in accordance with the BCA and AS3740 "Waterproofing of wet areas within buildings" and AS4654 External waterproofing, for Class III waterproof membrane.

The use of Chemind PE Reinforcing Strip is recommended as additional support in internal corners and areas subject to high stress or differential movement.

Allow bond-breaker system to cure fully before proceeding with general installation.

Application

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 any solvent-based adhesives, sealants or coatings in direct contact with Hydroflex.
- Use Chemind Epocote F100W as a primer on any areas subject to vapour pressure.
- Allow 10 mm expansion joints in topping or paving at perimeters and at 5 m intervals - fill with acrylic sealant.
- Use with Chemind Reinforcing Fabric to seal cuts, perimeters, penetrations, outlets or turn-ups to Grace Bituthene® membranes.

Surfacing

Hydroflex membrane is UV resistant but should be covered within 7 days of installation.

Protect Hydroflex on horizontal surfaces from site damage using Chemind Protectoboard.

Use 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 or ceramic tiles can be bedded on cement mortar or fixed directly with Chemind Chem-Fix adhesives.

- **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 consumption may vary from 1 – 1.5 litres/m².

Packaging

Hydroflex may be packed in 25kg pails.

Shelf Life

Unopened or resealed pails have 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 and review all MSDS before use.



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