

Newflex Membranes

High Performance Water Based Synthetic Rubber Membranes

Description

Newflex membranes are single-pack, water based polyurethane modified, synthetic rubber polymer, liquids developed specifically for tough, durable, permanently elastic waterproof protection of all major commercial and residential construction applications. They are CSIRO certified Class III rating.

Uses

Newflex membranes are ideal for indoor and outdoor use including wet areas, roofing, box gutters, balconies, sill flashings, plant room floors, podium decks, pools, water features, pools, tanking and landscaped areas.

They can be applied to most sound substrates.

Newflex is suitable for trafficable areas when used in conjunction with Chemind Tuffcote Duratop UV resistant, non-slip top coating system.

Features

- Complies with **Green Star** requirements
- Non-Hazardous – almost zero VOC (0.17%)
- Water clean-up, low odour, non-staining
- Environmentally friendly
- Simple application, fast cure
- Waterproof - resists water immersion
- Total adhesion - no water tracking
- Permanently flexible
- UV resistant - long life
- Single pack - no mixing
- Multi-purpose high build
- Forms a one piece membrane barrier
- Has CSIRO TA No.162 to AS3740:2004 "Waterproofing of wet areas in residential buildings" and to AS/NZS4858:2004 by Report 3683.2 as Class III
- Compliant with AS4654 "Waterproofing of external areas", as a Class III membrane
- Guaranteed when used in with Chemind Chem-Fix ceramic tile adhesive

Available in four different types of Newflex membrane which are designed with particular application focus – refer [Grades](#) for information as to specific product attributes.

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

Typical Properties

Composition	Water based PU Modified Rubber Elastomer
Solids Content w/w	>60%
Service Temperature	-10°C to 80°C
Cure Time - ready for Flood Test, tiling, topping	After 48 hours
Tensile Strength (AS/NZS4858)	>2.0 MPa
Elongation (AS/NZS4858)	>600% = Class III
Moving Joint Test (AS/NZS 4858)	Passed
Immersion Test (AS/NZS4858)	Passed (Water, bleach, detergent) = Class III
Heat Ageing (AS/NZS4858)	Passed = Class III
WVTR (AS/NZS4858)	1.23g/m ² /24 hrs
Accelerated Weathering (ASTM D822A)	No effect
Peel Adhesion (AS1526)	Concrete >150N Glass >50N

Grades

Newflex

- Developed as VOC free water based substitute for polyurethane membranes.
- Used for exposed or covered roof and balcony, hobs & sills, plant rooms, box gutters, podiums, wet areas, water features, pools and tanks

Newflex-R100

- Modified with tough, flexible integral microfibre and used for roofs, balconies, hob, sills, plant rooms, box gutters, wet areas, water features, pools and tanks

Newflex WAM Wet Area Membrane

- Exclusively designed for cost effective wet area and general-purpose use.
- Used for covered all internal wet areas, balconies, decks, sill flashings and tanking.

Newflex WAM Fibre

- Modified with fine flexible microfibre reinforcement and used as Newflex WAM.

Preparation

Surfaces must be sound, smooth and free from dust or other contamination. Repair all surface defects and use Chemind Chemflex LM PU sealant to fill joints, cracks and gaps.

Application

Priming

To internal wet areas apply one coat Chemind Primer "W" or diluted Newflex at 6 -10 m²/litre.

For all exposed decks, landscaping, pools or water features, use Chemind Epocote F100W water based epoxy at 6 -10m²/litre.

Detailing – Bond Breaker

- Use Chemind Chemflex PU sealant as bond breaker in accordance with AS3740 and AS4654 for Class III waterproof membrane. Allow to cure completely before proceeding with membrane installation.
- Seal all external joints in cement and timber sheet as well as other movement joints, penetrations, etc with 100mm Chemind Reinforcing Fabric embedded between two wet-on wet coats of standard Newflex at 2m²/litre and allow to dry.

Application of Continuous Membrane

Apply by brush, roller, squeegee or spray and allow to dry fully between coats. The minimum membrane DFT should be:

- Wet Area Floors 1.0mm (1.25-1.5 litres/m²)
- Wet Area Walls 0.3mm (2m²/litre)
- External Areas 1.25mm (1.5-1.8 litres/m²)

NOTE

For assistance in selection of correct Newflex grade contact Chemind Technical Department.

Application during hot or windy conditions will be assisted by adding 10% clean water.



Surfacing

Apply surfacing materials only to the fully cured Newflex membrane system.

- Ceramic Tiles may be laid on a mortar bed or fixed with Chemind Chem-Fix tile adhesives.

- Tanking

Cover with Chemind Protectoboard, Protectodrain or Rapid Drain, followed by selected backfill or landscaping.

- Exposed Surfaces

Use Chemind Tuffcote Duratop for foot traffic areas.

Use Chemind Blockflex, texture render and acrylic paint for decorative finishes.

- Insulated - Thermal

Chemind Insul-Foam insulation board for guaranteed thermal insulation.

- Insulated - Acoustic

Use Chemind Sound-Shield Mat under tiles etc. to give required acoustic value.

Coverage

- High Stress and Exposed Systems 1.5 litres/m²
- General Waterproofing 1.25 litres/m²

Packaging

Product packed in 15 litre or 20 litre plastic pails

Shelf Life

Unopened or re-sealed pails stored in a cool, dry place have a shelf life of 2 years.

Clean-up

Remove uncured Newflex with water. Chemind GP Solvent may assist with the removal of cured product. Exercise care when using solvents. Please review all MSDS before use.



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