

Newflex-R100

Heavy Duty, Synthetic Rubber Waterproofing Membrane

Description

A single-pack, water based polyurethane modified synthetic rubber polymer, liquid membrane developed specifically as a tough, durable and permanently elastic waterproof membrane, for all major commercial and residential construction applications. It contains a unique flexible microfibre as an integral reinforcement and is certified by CSIRO as Class III rating.

Uses

Chemind Newflex-R100 is as a robust, resilient membrane for roofing, box gutters, balconies sill and window flashings, but is equally suited to tanking use on planters, podium decks, ponds & water features, landscaped areas, bathrooms and wet areas. It can be applied to most sound construction surfaces.

Newflex-R100 is suitable for foot trafficable areas when used with Chemind Tuffcote Duratop UV resistant topcoat.

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
- UV resistant - long life
- Single pack - no mixing
- Multi-purpose high build, permanently flexible
- 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 unreinforced as Newflex

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	>65%
Service Temperature	-10°C to 80°C
Cure Time - ready for Flood Test, tiling, topping	After 48 hours
Tensile Strength (AS/NZS 4858)	>1.27 MPa
Elongation (AS/NZS 4858)	>600% = Class III
Moving Joint Test	Passed (AS/NZS 4858)
Immersion Durability (AS/NZS 4858)	Passed (Water, bleach, detergent) = Class III
Heat Ageing (AS/NZS 4858)	Concrete = 167N Glass = 53N
WVTR (AS/NZS 4858)	1.23g/m ² /24 hrs
Accelerated Weathering (ASTM D822A)	No effect
Peel Adhesion (AS 1526)	Concrete >150N Glass >50N

Preparation

Surfaces must be sound, smooth and free from dust, oil, grease or other contaminants.

Damp substrates are acceptable, but any ponded water must be removed.

Repair surface defects using water resistant patching compound.

Use low modulus polyurethane sealant to fill joints, cracks, gaps and form angle fillets to internal corners or penetrations.

Bond Breaker

Use Chemind Chemflex PU sealant to form a 12mm angle fillet as bond breaker in accordance with BCA as detailed by AS3740 and AS4654 for Class III waterproof membrane. Allow bond breaker to skin cure before proceeding with general membrane installation.

Application

Apply Chemind Primer W, Primer S or dilute Newflex-R100 with 25% water, at 6 - 7 m²/litre to internal wet areas, reveals, sills or flashings.

Use Chemind Epocote F100W at 6 –7m²/litre as primer on exposed roof decks, balconies, pools, pools or water features.

Roughen stainless steel or PVC then prime with Chemind Epocote F100W at 6 – 7m²/litre.

Application of Continuous Membrane

- Treat wet areas as required by BCA and AS3740 (see [Bond Breaker](#))
- Apply Newflex-R100 liberally by brush or roller in two or more coats to desired uniform thickness. Allow to dry between coats.
- Roof decks, terraces, balconies, box gutters, pools, water features and wet areas may be similarly coated with Newflex-R100.
- In high stress areas, outlets, penetrations corners, structural cracks and construction joints use Chemind Reinforcing Fabric embedded between two wet-on wet coats of Newflex at 2 m²/litre and allow to dry.

Surfacing

Newflex-R100 membrane is foot trafficable within 8 hours. Use the following systems for specific situations as listed. Apply surfacing materials only to fully cured membrane.

- Rigid Surfaces
PE slip-sheet with concrete topping.
Paving slabs on Chemind Multi Pads, sand or mortar bedding.
Tiles may be laid on cement mortar or fixed directly to Newflex-R100 with Chemind Chem-Fix adhesives.
Use Chemind Chembond polymer modified render or other compatible proprietary texture coatings.



- Decorative Coatings

Apply Chemind Blockflex high build coating or exterior acrylic paints, roll-on textures or sand-filled PP grass.

- Traffic Areas – Plantrooms or Decks

Apply Chemind Tuffcote Duratop at 4m²/litre. Allow 24 hrs drying before exposing to foot traffic or 48 hrs before allowing continuous traffic.

- Insulated - Thermally

Use Chemind Insul-Foam closed cell insulation board to provide fully guaranteed thermal insulation.

- Insulated - Acoustically

Use Chemind Sound-Shield or Sound-Kontrol sound deadening system under tiles etc. to give the required acoustic value.

Coverage

Wet Areas

- Floors – 1.5 litres/m² to give 1 mm DFT.
- Walls – 2–3m²/litre to give 0.3 mm DFT.

General

Decks, balconies, flashing, water features and tanking – 1.25 – 1.5 litres/m² to achieve a minimum 1mm DFT.

Packaging

Newflex-R100 is packed in 15 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-R100 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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