Chemind Product Data Sheet

Newflex W.A.M.

Multi-Purpose Approved Wet Area Membrane Waterproofing

Description

A single-pack, water based polyurethane modified synthetic rubber polymer, liquid membrane developed specifically as a tough, durable and permanently elastic waterproof membrane – also available with integral flexible micro-fibre. It is CSIRO certified Class III.

Uses

Newflex WAM and WAM Fibre are suited to most areas of waterproofing in commercial and residential design. It is compatible with most stable substrates including concrete, fibre cement sheet, CFC, ALC, precast panels, concrete masonry, brick, render, metals and plastics.

Newflex WAM and WAM Fibre are used for shower trays; bathroom and laundry floors, sill and window reveal flashings, balconies, ponds, and water features. It may also be used for external tanking applications.

Features

- Complies with **Green Star** requirements
- Non-Hazardous – almost zero VOC (0.17%)
- Water clean-up, low odour
- Simple application and quick drying
- Paintable - Non-staining
- Waterproof - resists ponded water
- Paintable - Non-staining
- Total adhesion - no water tracking
- Will not become brittle with age
- Long life – internal or external use
- Single pack - no mixing
- Forms a monolithic one-piece barrier
- Accepts most quality adhesive products and coatings including Chemind Chem-Fix
- Has CSIRO appraisal TA162 to AS3740 “Waterproofing of wet areas in residential buildings” and certified Class III membrane to AS/NZS4858:2004 by Report 3683.2
- Integrally fibre reinforced grade - Newflex WAM Fibre

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

Bond Breaker

Use Chemind Chemflex PU sealant as bond breaker in accordance with AS3740 and AS4654 for Class III waterproof membrane. Allow to cure fully before proceeding with general installation.

Typical Properties

Composition	Water based PU Modified Rubber Elastomer
Solids Content w/w	>60%
Service Temperature	-10℃ to 80℃
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/NZS4858)	Passed
Immersion Durability (AS/NZS4858)	Passed (Water, bleach, detergent) = Class III
Heat Ageing (AS/NZS4858)	Passed = Class III
WVTR (AS/NZS4858)	1.23g/m²/24 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.

All surface defects shall be repaired using water resistant patching compound.

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

Application

Apply Chemind Primer W or use Newflex WAM diluted with 25% water at 6 - 7 m²/litre to internal wet area walls, sills or flashings.

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

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

Application of Continuous Membrane

Apply liberally by brush or roller in two or more coats to desired uniform membrane thickness.

Allow to cure completely between coats. Ensure that membrane installation is fully cured before flood testing, covering with mortar bed or tiling. Cure time may be extended during winter or if poor ventilation.

NOTE

- All installation work is to be done fully in accordance with the BCA and Bond Breaker requirements of AS3740 and AS4654.
- Seal all external joints in cement or timber sheet and other movement joints, penetrations, etc with 100mm Chemind Reinforcing Fabric embedded between two wet-on-wet coats of Newflex WAM at 2m²/litre - allow to dry.
- If reinforcing fabric is used in association with Newflex WAM (use non-Fibre grade) it is essential that fabric is placed into wet membrane and another heavy layer is immediately applied onto the fabric. Roll vigorously into and through the fabric to totally and completely saturate it giving a homogeneous, monolithic, dense structure.
- In hot weather add to 10% water to aid application.

Surfacing

Newflex WAM may be subjected to foot traffic 8 hours after installation. Use the following surfacing systems for specific situations and install only after Newflex WAM membrane system has fully cured.

- Tiles - Ceramic tiles may be laid on a mortar bed or otherwise fixed directly with guaranteed Chemind Chem-Fix or other appropriate quality adhesives.
- Tanking - Prior to installing backfill or landscaping, cover with a suitable form of membrane protection.
- Other Rigid Surfaces

Use a 0.2 mm polyethylene slip-sheet under concrete topping.

Apply Chemind Chembond polymer modified cement render or acrylic based textures directly.

- Decorative Coatings

Water based paints may be applied directly to Newflex WAM membrane.

- Insulated - Acoustically

Use Chemind Sound-Shield to achieve acoustic insulation under rigid flooring in accordance with BCA and local building regulations.

Coverage

Internal Wet Areas

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

General

External water features, balconies, window or sill flashing at the rate of 1.25 – 1.5 litres/m² to achieve 1mm DFT.

Packaging

Newflex WAM and WAM Fibre are packed in 15 litre pails.

Clean Up

Remove uncured product with water. Chemind GP solvent may assist removal of cured product.

Exercise care when using solvents. Review all MSDS carefully before use.

Shelf Life

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

Chemind CONSTRUCTION PRODUCTS

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