

ULTRAURE A-80

Two Part Low Odour Abrasion Resistant PU Membrane

Description

Ultraure A-80 is tough, elastic, trafficable UV resistant polyurethane waterproofing membrane system. It is a premium grade, low VOC elastomer using the latest technology to provide long life, protective barriers to prestige construction projects.

Uses

Ultraure A-80 system is suitable for exposed roofing, decks, podiums, car parks, ramps, compactor room floors, plant rooms and wash rooms as well as for sport stadium service-ways, plats and vomitories.

Ultraure A-80 membrane may be used alone as a protective impact resistant, resilient internal flooring to laboratories, sports centres and gymnasium.

The Ultraure A-80 system can be applied to most clean, dry, stable surface including concrete, precast, fibre cement sheet, CFC, precast, concrete masonry, brick, render, metals and plastics

System

Ultraure A-80 Membrane

A tough, resilient polyurethane elastomer base layer rubber barrier giving long life waterproof protection.

Ultraure A-80 Topcoat

An extremely abrasion resistant, flexible UV colour stable top coating for Ultraure A-80 membrane. It is capable of moving with the substrate and suited for most areas of exposed pedestrian or vehicular traffic.

Features

- **Green Star** compliant – low VOC
- Problem free installation process
- Long life, permanently flexible
- Total adhesion - no water tracking
- Fully monolithic structure
- Resistant to puncture and damage
- Resistant to ponded water
- UV resistant and non-yellowing system
- Amazing temperature tolerance -40°C to 120°C
- Hard wearing, non-slip surface
- Combine with other Chemind and WR Grace membranes to specify a full waterproof envelope

Typical Properties

Property	A-80 Membrane	A-80 Topcoat
Appearance	Coloured	Coloured
S.G.	1.2-1.3 g/ml	1.1-1.2g/ml
Elongation	>400%	>300%
Solids % vol	>96	>45
Tensile Strength	>10 N/mm ²	n/a
Hardness	>80 Shore A°	n/a
Tear Resistance Die C	160 pli	n/a
Taber Abrasion Test (D1044)	<13mg	<13mg
Chemical Resistance	Oil, Petrol, Diesel, Acids and Alkalis	Oil, Petrol, Diesel, Acids and Alkalis
Water Absorption	<1.6%	
Dialectic Strength	320 (Volts/MIL)	
Flammability	Self-extinguishing	UL Class A
WVTR	0.012	
Mix Ratio (w/w)	1 : 1	4.7 : 1
Pot Life (20°C)	30 minutes	30 minutes

Preparation

- Surfaces must be sound, smooth, dry and free from dust, loose matter, curing agents, oil, grease or other contaminants.
- Use Chemind Chembond modified mortar to patch defects and allow to cure fully.
- Fill all joints, cracks, gaps and form angle fillets to internal corners or penetrations with Chemind Chemflex PU sealant.
- Concrete should be cured for 28 days and have max. 5% moisture content.

NOTE

- Resurfacing of previously painted surfaces will require total removal of existing coatings to expose bare, clean substrate. Machine grinding is the preferred method
- Mix all individual Ultraure components with a clean dry stirrer before use.
- Preferred application temperature range is between 5°C and 30°C.

Application

Priming

Apply Aquagard M Clear Primer may be used to inhibit outgassing. For damp or 'green' concrete use Chemind Epocote F100W. Coverage rate of primer is approx 8 - 10m²/litre or kg.

Generally

Use of fabric reinforcement is not usually required, however movement joints and areas where cyclic movement is expected, should be first sealed with Chemind Reinforcing Strip embedded in a 1mm thick layer of the Ultraure membrane.

Mixing

Measure each individual Ultraure A-80 Part A and Part B component accurately by weight into a clean container and mix thoroughly with an electric stirrer (300 rpm). Preferred material mixing and application condition is 10°C - 30°C and RH <85%.

Application

Ultraure A-80 Membrane

Apply first coat by notched trowel, roller, brush or plural component spray to 1.25-1.5mm DFT (approx 2kg/m²). Allow to dry 12 hours (but not longer than 2 days) then apply second coat 0.3mm (0.4kg/m²). While still wet, broadcast with non-slip grit. Allow to dry a minimum 12 hours before foot traffic. Remove loose grit.

Ultraure A-80 Topcoat

Apply Ultraure A-80 Topcoat by roller or air less spray system at 0.2-0.3kg/m². Allow 24 hours curing before foot traffic.

Total dry film thickness of system to be 1.5 – 2.0mm.



Surfacing

The finished Ultraure A-80 membrane may be subjected to foot traffic 8 hours after installation but 5 days curing should be allowed before vehicles are driven over the surface.

If required for functional or aesthetic reasons, areas of Ultraure A-80 membrane may be covered with optional surfacing systems, after full curing.

- **Tiles**
Ceramic tiles may be laid on a mortar bed or otherwise fixed directly with fully guaranteed Chemind Chem-Fix Super adhesive.
- **Landscaping**
Use Chemind Protectoboard, Protectodrain or Rapid Drain, followed by landscaping.
- **Other Rigid Surfaces**
Use a 0.2 mm PE slip-sheet under toppings. Paving slabs on Chemind Multi-Pads, bedding sand or mortar bed. Chemind Chembond polymer modified render.

Packaging

Aquagard M Clear Primer	18 kg pail
Ultraure A-80 Membrane	36 kg set
Ultraure A-80 Topcoat	20 kg set

Shelf Life

Sealed pails of Ultraure products have a shelf life of approx. 6 months, but once opened may thicken and become solid within a few days.

Clean-up

Remove uncured Ultraure products with Chemind GP Solvent. Exercise care when using solvents. Review all MSDS before use.



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