

# Aquagard M UVR System

## One Part UV Resistant PU Roof Membrane System

### Description

An advanced, high performance, one-part, fast curing, high solids, UV resistant polyurethane rubber polymer membrane system designed for exterior use. Aquagard M UVR System provides a highly durable waterproof membrane barrier for foot-trafficable roofs and decks. It is CSIRO certified Class III rating to AS/NZS4858.

### Uses

The Aquagard M UVR System is specifically designed for use as a non-slip fully exposed membrane on foot trafficable areas, including plant room floors, bunds, balconies, roof decks, hoods, podiums, sill or window flashings and exposed pathway areas.

The system can be applied to most surfaces.

### Features

- Low VOC system, meets **Green Star** requirements
- UV Resistant, colour fast and foot trafficable
- Easy and low cost to install, maintain or refurbish
- Quick access for trades
- Waterproof - resists ponded water
- No hazardous level of toxic substances
- Compliant with AS4654 "Waterproofing membrane systems for exterior use", as a Class III membrane
- Resistant to alkalis, acids, oils, fuel and solvents
- Immediate Resistance to rain damage
- Single pack - no mixing
- Multi-purpose - high-build
- Low odour and non-stain
- Forms a one-piece membrane barrier
- Will not become brittle with age

Aquagard M UVR System provides a truly durable elastomeric membrane fully laminated to the substrate.

It is engineered to allow application by "flood coating", without multi-layering. Although not essential to its installation, if required a non-woven reinforcing fabric may be incorporated to ensure uniform dry film thickness.

The Aquagard M UVR System may be left exposed, painted, over coated or tiled as required. See [Surfacing](#) data following.

### Total Project Specification

Selection of a complete package of quality, proven Chemind and Grace waterproofing systems for the project will guarantee total satisfaction for the specifier, builder and client.

### Typical Properties

Colour	Grey
Specific Density	1.25 - 1.3
Shore Hardness (cured)	70°A
Service Temperature	-10°C to 80°C
Cure Time - ready for Flood Test, tiling, topping	8 hours
Tensile Strength (AS1145)	2 MPa
Elongation (AS1145)	600%
Moving Joint Test	Passed
Immersion (AS1145)	Passed (Water, bleach, detergent)
Peel Test (AS1526)	Concrete = 167N Glass = 53N
Permeance (ASTM E96)	5.9 mg/mm/m <sup>2</sup> /24 hrs
UV Resistance (System)	Excellent

### Preparation

Surfaces must be sound, smooth and free from dust, loose matter, oil or other contaminants. Concrete should be cured 28 days and render 7 days.

Repair surface defects with Chemind Chembond modified mortar.

Use Chemind Chemflex LM PU sealant to fill joints, cracks, gaps and form angle fillets to internal corners or penetrations.

### Bond Breaker

Install 12mm Chemind Chemflex LM as bond breaker fully in accordance with the requirements and provisions as shown in AS4654 for AS/NZS4858 Class III membrane. Allow all detailing work to skin cure before proceeding with general membrane installation.

### Application

#### Priming

To inhibit pin-holes and seal dusty, porous surfaces use 1 coat of Chemind Aquagard M Clear Primer at 8 -10m<sup>2</sup>/kg and allow to dry. Use Chemind Epocote F100W or Chemcote W to seal any damp or "green" concrete. Roughen PVC or stainless steel.

## Application (cont)

### Detailing

Treat all areas as required by BCA and AS4654.2 External Waterproofing (see [Bond Breaker](#)).

Reinforce all joints in concrete, FC, CFC and timber sheet as well as other movement joints, penetrations, overlaps to angle flashings, etc with 100mm Chemind Reinforcing Fabric embedded between two heavy coats of Aquagard M.

### Application of a Continuous Membrane

Aquagard M UVR membrane is best applied in one application by squeegee. It can also be used by brush or roller in two or more coats to a minimum dry film thickness of 1.5mm. Allow to dry fully between coats.

### Topcoat

Mix Aquagard M Topcoat A/B and apply in one or two coats by brush, roller or spray (total 0.3kg/m<sup>2</sup>) to give uniform finish with DFT 0.15mm. Grey and a limited colour range are available.

### Surfacing

Aquagard M UVR membrane may be subjected to foot traffic after 12 hours.

Following surfacing systems may be used over fully cured Aquagard M UVR without Topcoat:

- **Tiles**  
Ceramic tiles may be laid on a mortar bed or otherwise fixed directly Chemind Chem-Fix Super adhesive.
- **Decorative Finishes**  
Use Chemind Epocote F100W as sealer for premium quality exterior acrylic paints or texture coatings.

- **Other Rigid Surfaces**

Use a 0.2 mm PE slip-sheet under concrete toppings.  
Paving slabs on Chemind Multi-Pads, bedding sand or mortar bed.

Chemind Chembond modified render or textures.

- **Insulated - Thermally**

Use Chemind Insul-Foam insulation for guaranteed thermal insulation.

- **Insulated - Acoustically**

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

### Coverage

Aquagard M Clear Primer	8 – 10m <sup>2</sup> /kg
Aquagard M UVR Membrane	2.0 kg/m <sup>2</sup>
Aquagard M Topcoat A/B	0.3 kg/m <sup>2</sup>

### Packaging

Aquagard M Clear Primer	18 kg pails
Aquagard M UVR Membrane	22 kg pails
Aquagard M Topcoat Part A	4 kg pails
Aquagard M Topcoat Part B	12 kg pails

### Clean Up

Use Chemind GP Solvent before curing. Exercise care with solvents and review MSDS.

### Shelf Life

Sealed pails of have a shelf life of approx. 6 months when stored in a cool dry area. Once opened contents may become solid within days.



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