

Aquagard M 40R

Fast Cure Elastomeric Waterproofing Membrane Systems

Description

A high performance, low odour, one-part, fast curing, high solids, polyurethane elastomer waterproof membrane. It is specially formulated for easy roller application of all permanently flexible, tough, high build, long life waterproof barriers. It is CSIRO certified Class III rating.

Uses

Aquagard M 40R is used for:

- Wet Areas - bathrooms, shower trays, laundries, toilets, spas
- External - balconies, roof decks, sill or window flashings, podiums, planters
- Tanking - retaining walls, landscaped areas, ponds, water features.

It can be applied to most stable surfaces – block, brick, concrete, render, timber, CFC, GRC, ALC, etc.

Features

- Low VOC, meets **Green Star** requirements
- Easy, fast one coat application – brush or roller
- Simple, seamless, fast cure membrane
- Root resistant barrier in planters
- Excellent resistance to acid sulphate soils
- Waterproof - resists ponded water
- No hazardous level of toxic substances
- Permanently flexible - total adhesion
- Immediate Resistance to rain damage
- Single pack - no mixing – high build
- CSIRO approved to AS3740 “Waterproofing of wet areas...” by TA 213 and tested Class III to AS/NZS4858
- Compliant with AS4654 “Waterproofing membrane systems for exterior use”, as a Class III membrane
- Systems for Total Project Specification
- Also available in Self-Level and Flowable grades with factory controlled viscosities

Aquagard M 40R is a pure polyurethane elastomer. It does not contain bitumen or tar.

Engineered to allow high build application without multi-layering and/or reinforcing mat.

Guaranteed when used in with Chemind Chem-Fix Super two-part rubber based ceramic tile adhesive.

Design a Total Waterproofing Envelope package with Chemind waterproofing systems.

Typical Properties

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|---|---|
| Composition | Polyurethane Elastomer |
| Specific Density | 1.35 – 1.45 |
| Service Temperature | -10°C to 80°C |
| Cure Time - ready for Flood Test, tiling, topping | 8 hours |
| Tensile Strength (AS/NZS4858) | 2.5 MPa |
| Elongation (AS/NZS4858) | 850% = Class III |
| Moving Joint Test | Passed (CSIRO AS4858) |
| Immersion Durability (AS/NZS4858) | Passed (Water, bleach, detergent) = Class III |
| Peel Test (AS1526) | Concrete = 167N Glass = 53N |
| WVTR (AS/NZS4858) | 2.79 g/m ² /24 hrs |
| Chemical Resistance | Excellent |

Preparation

Surface must be sound, smooth and free from dust or contaminants. Concrete should be cured 28 days and render 7 days.

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

Bond Breaker

Install 12mm Chemind Chemflex LM PU sealant as bond breaker in accordance with requirements and provisions as shown in AS3740 and AS4654 for AS/NZS4858 Class III membrane. Allow all detailing work to skin cure before proceeding with general membrane installation.

Application

Primer

To inhibit out-gassing on external surfaces, use Aquagard M Clear Primer. For internal areas use product diluted with 1 - 2 parts Chemind GP Solvent at 8 - 10m²/litre.

Use Chemind Epocote F100W to seal any damp or green concrete. Roughen PVC or stainless steel before priming with Epocote F100W.

Allow primer to at least become tack free before proceeding with membrane installation.

Detailing

Treat wet areas as required by the BCA and AS3740 (see [Bond Breaker](#)).

Seal external high stress movement joints, penetrations, etc with a 150mm strip of Chemind Reinforcing Fabric embedded between two heavy coats of Aquagard M 40R.

Application of Continuous Membrane

Apply Aquagard M 40R membrane liberally by roller or brush in one or more coats to desired uniform membrane thickness.

Allow to dry fully between coats.

For fully exposed, non-slip foot trafficable roof and deck applications use Chemind Aquagard M UVR system.

Surfacing

Allow Aquagard M 40R to cure overnight before subjecting to foot traffic. Protect installed membrane from damage.

If the surface retains any residual tacky feel, early access may be achieved by lightly broadcasting the area with fine sand. Remove and loose materials before over-coating.

The following surfacing systems may be used after the Aquagard M 40R membrane has fully cured.

- **Tiles**
Lay tiles on mortar bed or otherwise fix directly with fully guaranteed Chemind Chem-Fix adhesives.
- **Tanking**
Cover with Chemind Protectoboard, Protectodrain or Rapid Drain, followed by backfill or landscaping.
- **Other Rigid Surfaces**
Use a 0.2mm thick polyethylene plastic slip-sheet under concrete toppings.
Lay paving slabs supported on Chemind Multi-Pads or mortar bed.



- **Decorative Finishes**

Use Chemind Epocote F100W to seal surface, then apply any exterior quality acrylic paint or Chemind Blockflex high build waterproof membrane coating.

- **Insulated - Thermally**

Use Chemind Insul-Foam closed cell insulation board to required thickness to give guaranteed R value.

- **Insulated - Acoustically**

Use Chemind Sound-Shield sound deadening system under tiles etc., as required by BCA regulations.

- **Aquagard M Exposed Roofing**

Use Aquagard M UVR roof membrane system with Aquagard M UV resistant, non-slip Topcoat.

Coverage

General - Balconies, roof decks, retaining walls and planters - 1.5 – 2.0kg/m².

Wet Areas

- Floors - 1.5 – 2.0kg/m²
- Walls - 0.3 - 0.5kg/m²

Packaging

| | |
|-------------------------|------------|
| Aquagard M Clear Primer | 17kg pails |
| Aquagard M 40R Membrane | 22kg pails |

Clean Up

Use Chemind GP Solvent or methylated spirits before curing. Exercise care when using solvent, review all MSDS before use.

Shelf Life

Sealed pails have a 6 month shelf life, but once opened may solidify within a few days.



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