

Aquagard M

Fast Cure Elastomeric Waterproofing Membrane Systems

Description

A high performance, one-part, fast curing, high solids, liquid polyurethane polymer. Aquagard M is designed for the installation of high build, long life, permanently flexible waterproof membrane barriers for all major commercial and residential construction applications. It is CSIRO certified for BCA use to AS 3740, Class III rating.

Uses

- Internal Wet Areas (AS3740) – bathrooms, shower trays, laundries, toilets, kitchens
- External Waterproofing (AS4654) – balconies, roof decks, sill or window flashing, footings, retaining walls, lift pits, planter boxes, ponds, non-potable water containment and landscaped podium areas.

Features

- Very low or zero VOC, meets **Green Star** requirements
- Simple, seamless, fast cure high build membrane
- Root resistant barrier in planters
- Excellent resistance to acid sulphate soils
- Waterproof - resists ponded water
- Permanently flexible - total adhesion
- Immediate Resistance to rain damage
- 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

Grades

Aquagard M 40R Rollable

A unique product, easy to roll, exceptional 3mm non-sag qualities for vertical surfaces. One-coat coverage can be achieved on most surfaces.

Aquagard M Flowable

A modified flowable grade for large deck areas. Apply by squeegee or roller for one coat, high build cover.

Aquagard M UVR

Exclusively for highly durable waterproof, exposed roof membranes. Used with UV resistant Aquagard M Topcoat for prolonged service life.

Aquagard M Zero VOC

Low odour, with unique zero VOC properties for internal or external use. Has excellent non-slump qualities and is suitable for vertical or horizontal surfaces.

Design a Total Waterproofing Envelope package with Chemind and Grace waterproofing systems. For assistance in correct selection of Aquagard M grade, product system or specific detail, contact Chemind Technical Department on Toll Free 1800 33 44 44.

Bond Breaker

Install 12mm Chemind Chemflex LM as bond breaker fully in accordance with the 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.

Typical Properties

Attribute	Aquagard M 40R	Aquagard M Flowable	Aquagard M UVR	Aquagard M Zero VOC
Colour	Charcoal or Grey	Charcoal or Grey	Grey	Grey
Specific Density	1.35 – 1.45	1.35 – 1.45	1.35 – 1.45	1.35 – 1.45
Viscosity @ 25°C	45,000- 50,000cps	20,000-25,000 cps	4,000-5,000 cps	45,000-50,000 cps
Tensile Strength (AS1145.3)	>1.5MPa	>1.5MPa	>2.5MPa	>2.0MPa
Elongation (AS1145.3)	>800%	>800%	>500%	>800%
Moving Joint Test (AS4858)	Passed	Passed	Passed	Passed
Immersion Durability (AS/NZS4858) Class III	Passed (Water, bleach, detergent)	Passed (Water, bleach, detergent)	Passed (Water, bleach, detergent)	Passed (Water, bleach, detergent)
WVTR (AS/NZS4858)	3.4 g/m ² /24 hrs	3.4 g/m ² /24 hrs	3.4 g/m ² /24 hrs	3.4 g/m ² /24 hrs
Permeance (ASTM E96)	< 2 ng/m ² sPa	< 2 ng/m ² sPa	N/A	< 2 ng/m ² sPa
Hardness (Shore A°)	50 ± 5	50 ± 5	70 ± 5	50 ± 5

Preparation

Surface must be sound, smooth and free from dust or contaminants. Concrete to be cured 28 days and render 7 days. Use Chemind Chemflex LM PU sealant to fill joints or cracks and form fillets to internal corners or penetrations.

Application

Primer

To inhibit out-gassing, use one or two coats Aquagard M Clear Primer diluted 10 – 15% with Chemind GP Solvent – apply at 6 - 8m²/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 become tack free before proceeding with membrane installation.

Detailing

Treat all areas as required by BCA, AS3740 Wet Areas and AS4654.2 External Waterproofing (see [Bond Breaker](#)).

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

Application of Continuous Membrane

Select the appropriate grade of Aquagard M for particular application needs (refer [Grades](#)).

Apply Aquagard M liquid membrane liberally by brush, squeegee or roller to desired uniform thickness (generally 1.25 - 1.5mm DFT). Allow to dry fully between coats.

Surfacing

Aquagard M membrane may be subjected to foot traffic after 8 hours. Protect installed membrane from damage. The following surfacing systems may be used after the Aquagard M membrane has fully cured.

- **Exposed Areas**
Use Aquagard M Topcoat (non-slip or sheen finish) to provide UV stable protective finish. Use Aquagard M UVR System for all exposed or foot trafficable areas.



- **Tiles**
Lay ceramic tiles on mortar bed or fix directly with fully guaranteed Chemind Chem-Fix Super adhesive.
- **Decorative Finishes**
Use Chemind Epocote F100W to seal surface, then apply Chemind Blockflex or exterior acrylic coating.
- **Other Rigid Surfaces**
Use a 0.2mm thick polyethylene plastic slip-sheet under concrete toppings.
Lay paving slabs supported on Chemind Multi-Pads or laid over cement mortar bed.
- **Tanking**
Cover with Chemind Protectoboard, Protectodrain or Rapid Drain, followed by backfill or landscaping.
- **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.

Coverage

External - Balconies, decks, retaining walls and planters - 1.25 lit (1.75kg) to 1.5 lit (2kg)/m²

Internal Wet Areas

- Floors - 1.25 lit (1.75kg) to 1.5 lit (2kg)/m²
- Walls - 2 – 3m²/ lit (0.7kg – 0.5kg/m²)

Packaging

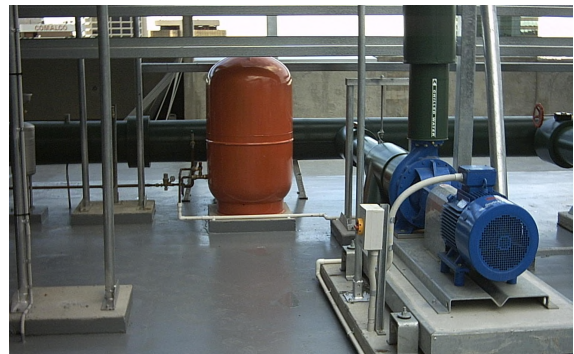
Aquagard M Clear Primer 17 kg pails
Aquagard M Flowable, Rollable, UVR, Zero 22 kg pails

Clean Up

Use Chemind GP Solvent or methylated spirits before curing. Exercise care and review all MSDS before use.

Shelf Life

Stored in a cool, dry place, unopened pails have 6 month shelf life. Opened product may solidify within a few days.



HEAD OFFICE
74 Annie Street
ROCKLEA QLD 4106
AUSTRALIA
Ph: (+617) 3255 5755
Fax: (+617) 3255 5991
ABN: 63 250 804 992