Warranty

Consistent with the 50 year history of Crommelin, our management team is committed to providing all customers with sound technical advice, innovative products and acceptance of the responsibilities associated with our specifications and systems. Warranties of up to 15 years are issued following Quality Assurance procedures. They consist of tailored specifications, maintenance schedules and on-site support. Please contact Crommelin for further information.

While the information contained herein is to the best of our knowledge, true and correct at the time of press, no warranty is given or implied in connection with and recommendation of or suggestion made by us or our representatives, as the conditions of use and any labour involved in application are beyond our control. Furthermore, the accuracy of the information contained herein may alter with any technical improvements.
Established in 1958, Crommelin is Australian owned with over 50 years experience in engineering and manufacturing innovative, user-friendly, waterproofing and sealing systems for the construction industry.

Crommelin’s proven project history in Australia and throughout Asia, together with our innovation places the company at the head of our industry.

R&D Leadership
Crommelin are proven industry leaders in the development of waterproofing technology. The company has received the Australian Government Industry R&D Award for ‘Waterborne Liquid Applied Waterproofing Technology’.

Advantages of Liquid Applied Membranes
Crommelin liquid applied membranes dry to form a permanent highly flexible barrier that enables construction joints and penetrations to be detailed, allowing for extensive movement.

As seamless tanking systems, Crommelin membranes are more reliable than sheet membranes by overcoming the problem of overlap breaks that can occur between lapping areas of sheet membranes.

Liquid membrane technology avoids the difficulty in detailing of sheet membrane around complicated construction profiles. Crommelin liquid membrane technology provides a complete and intimate bond to substrates, eliminating the ability of water to migrate between the membrane and substrate.

Importance of Standards
Australia has developed a number of key design and performance-based standards for waterproofing, namely:

- AS 4654 – Waterproofing Membrane Systems for Exterior Use
- AS 3740 – Waterproofing of Domestic Wet Areas
- AS 4858 – Wet Area Membranes
- AS 4020 – Products for Use in Contact with Drinking Water

Furthermore, AS 3740 is incorporated as a requirement of the Building Code of Australia. Crommelin are committed to independently testing and ensuring all relevant waterproofing systems meet these and other key internationally recognised standards.

Areas of Use
The increasing complexity of building and construction has resulted in a wide variety of different materials and interfaces. Crommelin waterproofing systems are engineered to accommodate most designs and construction details in the key risk area in any building.

- Exposed areas (roof areas, building facades, etc)
- External protected areas (balconies, plaza decks, roof gardens, etc)
- Internal wet areas (bathrooms, showers, laundries, etc)
- Below grade areas (basements, car parks, retaining walls, etc)
Wetite®

Engineered membrane

Engineered for use under tiled finishes or screeds in wet areas. A waterborne synthetic rubber membrane incorporating a rough keyed finish to promote strong bonds to all subsequent toppings.

Features and Benefits
- Tested as Class III membrane to AS 4858
- Complies with Building Code of Australia FP1.4 and FP1.7 and P2.2.2 and P.2.4.1
- CSIRO accreditation to AS 3740
- Low VOC content
- High permanent flexibility - accommodates cracking in substrates
- Excellent adhesion to a wide variety of substrates
- Dries to a keyed finish to promote adhesion with tile adhesives
- Single pack
- Quick drying
- Safe and easy to use
- Designed for use with a bond breaker
- Excellent chemical resistance

Technical Data
- Number of coats: 2
- Spreading rate per coat: 2m²/L
- Curing time: 48 hours
- Colour: Green
- Wet film per coat: 500 microns
- Recast @25°C: 2–4 hours
- Thinner: Water
- Shelf life: 12 months

Areas of Use
- Bathrooms
- Shower recesses
- Balconies
- Water bodies (e.g. tiled pool areas)
- Laundries and kitchens
- Concrete, cement render, plaster
- Wet area wall lining board
- Fibre cement sheet / flooring
- Brick
- Light weight aggregate block
- Plasterboard, Gyproc
- Plywood / particle board flooring

Wetite® Project Reference: Waterfront Apartments, India
Elastoseal® TR
Podium deck, landscape areas and roof terrace membrane

Elastoseal® TR is a high performance waterborne synthetic rubber membrane, designed to offer permanent waterproofing to protected areas subject to ponding and immersion.

Features and Benefits
• Tested as Class III membrane to AS 4654.1
• High permanent adhesion strength and elongation (>330%) to accommodate thermal and structural movement
• Tested as suitable for pedestrian traffic AS 4654.1
• Tested as suitable for collection & storage of drinking water AS 4020
• Excellent chemical and biological resistance
• May be reinforced with Polyfab for increased puncture resistance
• Safe and easy to use
• Quick drying
• Excellent crack bridging properties
• Easy to repair
• Low VOC

Technical Data
- Number of coats: 2
- Spreading rate per coat: 1.5m²/L
- Curing time: 48 hours
- Colour: Light Grey
- Wet film per coat: 667 microns
- Recoat @25ºC: 2 hours
- Thinner: Water
- Shelf life: 12 months

Areas of Use
- Podium deck areas
- Roof gardens
- Roof terrace areas
- Balconies
- Gutters
- Concrete, cement render
- Plywood & cement fibreboard
- Brick & light weight aggregate block
- Steel and aluminium

Balcony Door Sill

Flashing of Penetrations
Elastoseal® HD

Below grade membrane

Elastoseal® HD is an ultra high elongation waterborne neoprene membrane with extremely low water permeability. Engineered for below grade waterproofing to accommodate significant structural movement.

**Features and Benefits**
- 1300% elongation to accommodate structural movement
- Excellent adhesion to substrates
- Good chemical resistance
- Easy to repair
- Can be reinforced with Polyfab for mechanical strength & puncture resistance
- Suitable for permanent contact with drinking water to AS 4020
- Resistant up to 100m head of hydrostatic pressure
- Safe and easy to use
- Low VOC

**Technical Data**
- Number of coats: 2
- Spreading rate per coat: 1m²/L
- Curing time: 72 hours
- Colour: Black
- Wet film per coat: 500 microns
- Recoat @25°C: 2-4 hours
- Thinner: Water
- Shelf life: 12 months

**Areas of Use**
- Below grade car parks
- Basements
- Retaining walls
- Landscaped decks
- Planter boxes
- Grey water & sewerage tanks

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**Below Grade Footing**

**Vertical Slab Joints**

![Elastoseal HD Project Reference: Sukhothai Hotel, Thailand](image)
Membryl® is a high-build waterborne acrylic membrane designed to provide reliable crack bridging and anti-carbonation protection of concrete.

**Features and Benefits**
- Very high adhesive strength – no primer required on most surfaces
- High build - bridges fine cracks
- Resistant to impact and traffic damage
- Provides anti-carbonation protection of concrete
- Tough – high tensile strength and hardness
- Allows substrate to breathe
- Fungal and algal resistant – an extended life and clean appearance in high humidity environments
- Fire and flame resistant
- Chemical attack resistant
- Decorative – available in a wide range of durable colours
- Excellent resistance to dirt pick up

**Technical Data**
- Number of coats: 2 – 3
- Spreading rate per coat: 1.6 – 4.8
- Curing time: 48 hours
- Colour Range of colours
- Wet film per coat: 675 – 210
- Thinner: Water
- Shelf life: 12 months

**CoolRoof™ Technology**
The heat reflective technologies incorporated in Membryl® aid in reducing internal air temperatures of treated building by 20%. This in turn reduces energy consumption required for cooling.

**Areas of Use**
- Concrete roof areas
- External walls – concrete, concrete block, brick and other masonry surfaces
- Internal walls
Catalyst PWC

Penetrating crystallisation treatment

Catalyst PWC is a biochemical modified silicate solution that provides long-term waterproofing and durability benefits to concrete. It penetrates into concrete and reacts with free calcium and water to form a water insoluble calcium silicate hydrate gel complex in cracks, pores and capillaries.

Features and Benefits
- Long term performance. No re-application or future maintenance required.
- 100% trafficable after the first watering. Minimal risk of damage during construction or thereafter.
- Suitability for tanking applications (positive hydrostatic pressure).
- Fault finding. If stubborn cracks are present they are easy to find and fix. No lifting of membranes required.
- Permanently seals existing cracks to 2.00mm.
- Reseals future hairline cracking.
- Increases surface hardness.
- Allows moisture vapour permeability.

Technical Data

<table>
<thead>
<tr>
<th>Properties</th>
<th>Test Method</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Permeability (.5 N/mm² 72 hrs)</td>
<td>Testtech Sdn Bhd 3/6/00 SETSCO 28/6/02</td>
<td>40-50% reduction</td>
</tr>
<tr>
<td>Crack Sealing</td>
<td>Testtech S/B 28/8/002</td>
<td>50% reduction</td>
</tr>
<tr>
<td>Resealing after forced failure</td>
<td>Testtech S/B 28/8/002</td>
<td>Black remeasured after first failure, water only applied, a seal was achieved and the clamp removed.</td>
</tr>
<tr>
<td>PH</td>
<td>Warnock Hersey 26/1/89</td>
<td>11.9 Resist to acids at 2.4 and alkalies at 11.5.</td>
</tr>
</tbody>
</table>

Technical Data

- Number of coats: 1 treatment
- Spreading rate per coat:
  - Normal: 5m²/L
  - Smooth, dense surfaces: 6m²/L
  - Rough, dense surfaces: 4m²/L
  - Cracked areas: 5m (linear)/L
- Curing time: 48 hours
- Colour: Clear
- Thinner: Water
- Shelf life: 12 months

Areas of Use
- Car parks
- Bridge decks
- Wharf decks
- Airport runways, taxiways & aprons
- Potable water tanks
- Viaducts
- Water treatment works
- Cut and cover tunnels
- Precast elements & panels
Polyfab
Reinforcement for all membranes

Polyfab is a non woven, rot proof polyester fabric for use in conjunction with liquid waterproofing membranes. It is easier to wet out and possesses superior flexibility to materials such as fibreglass.

Polyfab BB
Bond breaking reinforcement for all membranes

Polyfab BB is a 100mm wide self-adhesive non-woven polyester fabric. It incorporates a self-adhesive portion that acts as a bond-breaker over joints, cracks or other areas of movement.

Technical Data

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method / Standard</th>
<th>Elastoseal® TR</th>
<th>Elastoseal® HD</th>
<th>Membrey®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abrasion Resistance</td>
<td>ASTM D4042</td>
<td>0.1mm – Pass for Pedestrian traffic</td>
<td>0.1mm – Pass for Pedestrian traffic</td>
<td></td>
</tr>
<tr>
<td>Biological Resistance</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fungal</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Algal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phosphate resistant</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical Resistance</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test strips immersed for 7 days before visual examination</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dilute Acids</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dilute Alkali</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salt Solutions</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyclic Movement</td>
<td>CIRO Moving Joint Test</td>
<td>PASS – 50 cycles</td>
<td>PASS – 50 cycles</td>
<td>Pass – 50 cycles</td>
</tr>
<tr>
<td>Diffusion Coefficient (Qc)</td>
<td>ASTM E96–80</td>
<td>5.8 x 10⁻¹⁰ cm² sec⁻¹</td>
<td>4.3 x 10⁻¹⁰ cm² sec⁻¹</td>
<td></td>
</tr>
<tr>
<td>Diffusion Resistance Coefficient (μ)</td>
<td>ASTM E96–80</td>
<td>4000</td>
<td>5920</td>
<td></td>
</tr>
<tr>
<td>Direct Tension Adhesion Strength</td>
<td>ASTM D45–41</td>
<td>2.0N/mm²</td>
<td>1.4N/mm²</td>
<td>1.8N/mm²</td>
</tr>
<tr>
<td>Duraability (Water Immersion / Chemical Resistance)</td>
<td>AS 4654.1</td>
<td>PASS</td>
<td>PASS</td>
<td>5000 cycles at 10 cycles per minute. Displacement 0.15mm, no visible failure</td>
</tr>
<tr>
<td>Dynamic Crack Bridging</td>
<td>BAM 2YT BEL – OS BEL – OS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elongation</td>
<td>ASTM D42–87</td>
<td>317%</td>
<td>350%</td>
<td>125%</td>
</tr>
<tr>
<td>Equivalent Air Layer Thickness (Sd)</td>
<td>ASTM D4042</td>
<td>2.8m</td>
<td>1.2m</td>
<td></td>
</tr>
<tr>
<td>Fire Propagation</td>
<td>B.S. 476 Part 6</td>
<td></td>
<td></td>
<td>3.3 Fire Prop. Index Class 1</td>
</tr>
<tr>
<td>Fire Propagation</td>
<td>B.S. 476 Part 7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hardness</td>
<td>ASTM D2240</td>
<td>2.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrostatic Head of Water</td>
<td>ASTM E96–80</td>
<td>2.4 x 10⁻¹³ m sec⁻¹</td>
<td>2.3 x 10⁻¹³ m sec⁻¹</td>
<td>1.1 x 10⁻¹³ m sec⁻¹</td>
</tr>
<tr>
<td>Pressure Vapour Transmission</td>
<td>ASTM E96</td>
<td>1g/m²/24 hr</td>
<td>1.8g/m²/24 hrs</td>
<td>15.7g/m²/24 hours</td>
</tr>
<tr>
<td>Temperature Resistance (O°C – 85°C)</td>
<td>ASTM E154–88</td>
<td>24N</td>
<td>Extension 300mm +</td>
<td></td>
</tr>
<tr>
<td>Temperature Resistance (O°C – 85°C)</td>
<td>ASTM E154–88</td>
<td>24N</td>
<td>Extension 300mm +</td>
<td></td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM D4137</td>
<td>2.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM E96–80</td>
<td>2.4</td>
<td></td>
<td></td>
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<td>ASTM E96–80</td>
<td>2.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UV Resistance</td>
<td>ASTM D4137</td>
<td>2.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UV Resistance</td>
<td>ASTM E96–80</td>
<td>2.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Absorption</td>
<td>ASTM D5850</td>
<td>2.73%</td>
<td>2.73%</td>
<td></td>
</tr>
<tr>
<td>Water Absorption</td>
<td>ASTM D5850</td>
<td>2.73%</td>
<td>2.73%</td>
<td></td>
</tr>
<tr>
<td>Water Permeability</td>
<td>ASTM E96</td>
<td>1.47 x 10⁻¹³ m²/Pa sec</td>
<td>1.47 x 10⁻¹³ m²/Pa sec</td>
<td></td>
</tr>
<tr>
<td>Water Permeability</td>
<td>ASTM E96</td>
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<tr>
<td>Water Vapour Transmission</td>
<td>ASTM E96</td>
<td>1g/m²/24 hr</td>
<td>1.8g/m²/24 hrs</td>
<td>15.7g/m²/24 hours</td>
</tr>
</tbody>
</table>

Features and Benefits

- Bridges gaps
- Strengthens membranes by increasing tensile strength and puncture resistance
- Flexible
- Outstanding conformability
- High grab tensile strength

Areas of Use

- Plaza decks
- Roof areas
- Flashings
- Balconies and terrace areas

Polyfab Application

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Bonding for all membranes

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