



# Elastoseal<sup>®</sup> MPU & MPU-LV

Elastomeric polyurethane waterproofing membrane.

## DESCRIPTION

Elastoseal<sup>®</sup> MPU is a solvent borne, high performance, moisture cure, elastomeric polyurethane waterproofing membrane, specifically engineered for use under screeds and on other non-exposed and non-trafficable surfaces.

Elastoseal<sup>®</sup> MPU-LV is available for cold climates. It is a low viscosity version of Elastoseal<sup>®</sup> MPU.

**Note: It is not recommended to adhere tiles directly to Elastoseal<sup>®</sup> MPU.**

## ADVANTAGES

Elastoseal<sup>®</sup> MPU delivers the following advantages;

- Low VOC, complies with Green Star requirements.
- High resistance to puncture.
- High resistance to fouling.
- High resistance to stagnant water.
- High elongation, class III membrane.
- Monolithic membrane – no lap, weld or seams.
- No reinforcement required.
- Excellent crack bridging capability.
- Remains flexible at low temperatures.

## AREAS OF USE

Elastoseal<sup>®</sup> MPU is suitable for use in the following areas;

- Balconies
- Roof Gardens & Terraces
- Podium Decks
- Internal Wet Areas (under screed)

## SUBSTRATES

Elastoseal<sup>®</sup> MPU is suitable for application on;

- Concrete & Brick
- Cement Render
- Cement Sheeting
- Plywood Sheeting

## TESTING APPROVALS AND STANDARDS

Elastoseal<sup>®</sup> MPU is compliant with the following standards;

- Green Star - Design & As Built v1.1: Indoor Pollutants 13.1 Paints, Adhesives, Sealants and Carpets.
- APAS 181 – V.O.C limits.

## TECHNICAL DATA (@ 25°C)

Number of Coats:	2
Coverage: (per coat)	900gm/m <sup>2</sup>
Wet Film: (per coat)	700 microns
Recoat:	12 – 24 hours
Full Cure:	7 days
Colour:	Light Grey
Thinner/Clean Up:	Xylene
Shelf Life:	9 months

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## ANCILLARY PRODUCTS

- Crommelin<sup>®</sup> Contractor Polyurethane Sealant – 600ml
- Crommelin<sup>®</sup> Silicone WP Plus – 300ml
- Crommelin<sup>®</sup> Polyfab – reinforcing fabric
- Crommelin<sup>®</sup> Polyfab BB – bond breaker
- Crommelin<sup>®</sup> Contractor Membrane Applicator Brush – 100mm, 75mm
- Crommelin<sup>®</sup> Contractor Membrane Roller Cover – 230mm
- Crommelin<sup>®</sup> Moisture Meter

## TEST DATA

Properties	Measurement /Standard	Test Results
Tensile Strength	AS1145	2MPa
Elongation	AS1145	690%
Hardness (Shore A)	In-house test method	40
Angle Tear Strength	In-house test method	11kg/cm
Non-Volatile (%W/W)	In-house test method	91
VOC	In-house test method	135g/L

## SUBSTRATE PREPARATION AND PRIMING

Full substrate preparation instructions can be found at [www.crommelin.com.au/full-instructions/](http://www.crommelin.com.au/full-instructions/)

- The surface should have a light even texture. Masonry should be flush pointed and all defects in existing surfaces made good.
- Surfaces must be clean, dry, sound and free from dust, grease, curing compounds, release agents, loose particles, efflorescence, concrete laitance or any other contaminants.
- All high points and protrusions should be removed, blow-holes and areas of honeycombing should be filled and the surface should be brought back to an even profile using a suitable repair mortar.

**Note: Due to the wide variety of substrates available, adhesion testing is recommended in a trial area before full application.**

- For maximum membrane adhesion, priming with Crommelin<sup>®</sup> Primer PU is recommended.
- If substrate is not dry, prime surface with Crommelin<sup>®</sup> WB2K as per specification.

## APPLICATION CONDITIONS

- Substrate must be dry, with less than 15% moisture content. The use of suitable moisture meter is recommended.
- Application temperature between 10°C - 35°C.
- Do not apply if relative humidity is above 85% during initial cure phases, or if rain is expected before cure.

**Note: In humid conditions, air flow should be maximised with the use of fans to assist cure.**



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## APPLICATION

Full application instructions can be found at [www.crommelin.com.au/full-instructions/](http://www.crommelin.com.au/full-instructions/)

- Apply Crommelin<sup>®</sup> Polyfab BB or Bond Breaking Sealant to internal angles/corners (wall & floor junction) and vertical angles/corners (wall & wall junction) as per standard.
- Apply Elastoseal<sup>®</sup> MPU with Crommelin<sup>®</sup> Contractor Membrane Brush, Crommelin<sup>®</sup> Contractor Membrane Roller or similar.
- Apply first coat of Elastoseal<sup>®</sup> MPU as per recommended coverage rate. Work from corners to central areas and allow to dry.
- If only a bond breaking sealant has been used, it is recommended to install Crommelin<sup>®</sup> PolyFab Reinforcing Fabric to all joints and corners in conjunction with first coat of Elastoseal<sup>®</sup> MPU.
- Apply second coat of Elastoseal<sup>®</sup> MPU (within 48 hours of the first coat) as per recommended coverage rate, at 90<sup>0</sup> to the first coat.
- Allow to cure for a minimum of 24 hours, before the application of a screed or the commencement of tiling.
- If pond testing is required, allow to dry for a minimum 48 hours (depending on weather conditions) to ensure adequate curing. Pond test with water to a depth of 25mm for 2 hours. After testing ensure area is drained and dried.
- Elastoseal<sup>®</sup> MPU can be diluted with Xylene. Other solvents are prohibited.

## CLEAN UP

- Wash all equipment with Crommelin<sup>®</sup> Solvent, Xylene or MEK before product dries.

## MAINTENANCE SCHEDULE AND REPAIR

- Elastoseal<sup>®</sup> MPU must be protected from damage by after trades and inspected prior to the application of any over coat.
- Moisture blisters and bubbles may be repaired by cutting out the affected area, allowing substrate to properly dry and reapplication of membrane as per recommended coverage rates.
- Protect membrane from harsh chemicals, abrasion and other potentially damaging conditions.

## PRECAUTIONS

- Do not apply if the temperature is below 10°C or relative humidity is above 85% or if rain is imminent.
- Do not apply Elastoseal<sup>®</sup> MPU to wet substrates. The moisture content of the surface should be less than 15%. Check with a moisture meter if unsure.
- Ensure adequate ventilation and air flow to optimise membrane curing.

## WARRANTEES

A standard warranty period of 10 years is offered for Crommelin<sup>®</sup> Elastoseal<sup>®</sup> MPU.

Extended warrantees are available for project specific applications. Please contact your Crommelin<sup>®</sup> representative, or the Crommelin<sup>®</sup> technical support team for detailed specifications applicable to your project and warranty requirements.

## TRANSPORT AND STORAGE

- Size: 19kg
- Weight: 19kg
- DG Class: N/A
- Flash Point: N/A
- UN Number: N/A
- Cool and Dry Storage



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## SAFETY AND FIRST AID

Elastoseal<sup>®</sup> MPU Safety Data Sheet is available from Crommelin<sup>®</sup> upon request.

### Safety

- Ensure good ventilation and avoid breathing vapours.
- Avoid skin and eye contact. Wear gloves and eye protection. Remove splashes on skin immediately and remove contaminated clothing.
- Keep out of reach of children.
- Keep container sealed when not in use.
- Do not swallow.

### First Aid

- If poisoning occurs, contact a doctor or poisons information centre: Ph. 13 11 26.
- If swallowed, do not induce vomiting. Give a glass of water to drink.
- If in eyes, hold eyes open and flood with water for at least 15 minutes.
- If not breathing, apply artificial respiration.

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Any advice, recommendation, information, assistance or service provided by Crommelin<sup>®</sup> in relation to its products or their use is given in good faith, however is provided without responsibility or liability.

Customers need to undertake their own assessment to determine the suitability of a product for the intended use. As the performance of any product is subject to a wide variety of different surface types as well as environmental and surface-specific conditions, it is essential that a sample of the product be applied to the intended area of use to ensure it is acceptable in appearance and finish and that it performs as required on the specific surface.

Crommelin<sup>®</sup> also reserves the right to update information without prior notice, to reflect ongoing research and product development.

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