

# Technical Data Sheet

November 2022



## Elastoseal® HD

Heavy duty, highly flexible, waterborne elastomeric tanking membrane.

### DESCRIPTION

Elastoseal® HD is a tough elastomeric tanking membrane, consisting of heavy duty, waterborne modified synthetic rubber. Elastoseal® HD is a composite seamless membrane designed for waterproofing areas subject to ponding and permanent immersion.

Elastoseal® HD is exceptionally tough, durable and flexible and capable of accommodating structural movement.

### ADVANTAGES

Elastoseal® HD delivers the following advantages;

- 430% elongation to allow structural movement.
- Excellent adhesion to substrates.
- Good chemical resistance.
- Easy to repair.
- Reinforced for mechanical strength and puncture resistance.
- Isocyanate free and non-toxic water run off.
- Remains permanently elastic.
- Suitable for permanent water immersion.

### AREAS OF USE

Elastoseal HD® is suitable for use in the following areas;

• Non-UV Exposed Areas	• Landscaped Decks
• Plaza Areas	• Planter Boxes
• Retaining Walls	• Lift Shafts
• Basement Car Parks	

### SUBSTRATES

Elastoseal® HD is suitable for application on;

• Concrete & Brick	• Cement Render
• Cement Sheetings	• Plywood Sheetings
• Light Weight Aggregate Block	

### TESTING APPROVALS AND STANDARDS

Elastoseal® HD 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.
- AS4654 Waterproofing of External Above Ground Building Elements.
- AS4020 Products for use with Drinking Water.

### TECHNICAL DATA (@ 25°C)

Number of Coats: 2

Coverage: (per coat) 1m<sup>2</sup>/L

Wet Film: (per coat) 1000 microns

Recoat: 2 – 4 hours

Full Cure: 7 days

Colour: Black

Thinner/Clean Up: Water

Shelf Life: 12 months

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## ANCILLARY PRODUCTS

- Crommelin® Hybrid MS Polyurethane Sealant – 600ml
- Crommelin® Silicone & Bond Breaker Sealant – 300ml
- Crommelin® Polyfab – reinforcing fabric
- Crommelin® Polyfab BB – bond breaker
- Crommelin® Contractor Membrane Applicator Brush – 100mm, 75mm
- Crommelin® Contractor Membrane Roller Cover – 230mm
- Crommelin® Moisture Meter

## TEST DATA

Properties	Measurement/ Standard	Test Results
Tensile Strength	ASTM D412-87	2.7MPa
Elongation	ASTM D412-87	430%
Resistance to Puncture	ASTM E154-88	24.2N Extension 300mm+
Resistance to Puncture (embedded with Polyfab)	ASTM E154-88	Max Load 643N,65.5Kg Extension 45.8mm
Dynamic Crack Bridging	AS4858	60 cycles 200% extension
Water Vapour Transmission	ASTM E96	1.0g/m <sup>2</sup> /24 hours
Permeance	ASTM E96	0.52 perm unit
Equivalent Air Layer Thickness (Sd)	ASTM E96	6.07m
Water Absorption	ASTM D471	3.1% 24 hours
Liquid Water Transmission Rate	AS4201.4	0.012g/m <sup>2</sup> /hours (400 hours)
VOC	SCAQMD 304-91	18g/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.
- Corroded metal areas should be wire brushed and treated with an anti-corrosion primer.
- 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.**

- Substrates that are porous and/or slightly dusty should be primed with a 1:1 dilution of Elastoseal® HD and water.
- If substrate is not dry, prime surface with Crommelin® 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® 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® HD with Crommelin® Contractor Membrane Brush, Crommelin® Contractor Membrane Roller or similar.
- Apply first coat of Elastoseal® HD 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® PolyFab Reinforcing Fabric to all joints and corners in conjunction with first coat of Elastoseal® HD.
- Apply second coat of Elastoseal® HD as per recommended coverage rate, at 90° to the first coat.
- Allow to cure for a minimum of 48 hours, before the application of a screed or topping.
- 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.

## CLEAN UP

- Uncured material may be removed with warm water and detergent.
- Cured material may be removed mechanically.
- Cured material may be softened by soaking in Crommelin® HD Cleaner before attempting removal.

## MAINTENANCE SCHEDULE AND REPAIR

- Elastoseal® HD 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® HD 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.

## WARRANTIES

A standard warranty period of 10 years is offered for Crommelin® Elastoseal® HD.

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

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## TRANSPORT AND STORAGE

- Size: 15L
- Weight: 17.5kg
- DG Class: N/A
- Flash Point: N/A
- UN Number: N/A
- Cool and Dry Storage

## SAFETY AND FIRST AID

Elastoseal® HD Safety Data Sheet is available from Crommelin® 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® 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® also reserves the right to update information without prior notice, to reflect ongoing research and product development.

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