



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 neoprene. Elastoseal[®] HD is a composite seamless membrane designed for waterproofing areas subject to ponding and immersion.

ADVANTAGES

Elastoseal[®] HD delivers the following advantages;

- 1300% 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.

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 Sheeting
- Steel (suitably primed)
- Plywood Sheeting
- 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.
- AS4020 Products for use with Drinking Water.

TECHNICAL DATA (@ 25°C)

Number of Coats:	2
Coverage: (per coat)	1 m ² /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

ANCILLARY PRODUCTS

- Crommelin[®] Contractor Polyurethane Sealant – 600ml
- Crommelin[®] Silicone WP Plus – 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

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TEST DATA

Properties	Measurement/ Standard	Test Results
Tensile Strength	ASTM D412-87	0.8MPa
Elongation	ASTM D412-87	1295%
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	BAN 2VT-BEL-OS BEL-OS	5000 cycles at 10 cycles per minute. Displacement .15mm, no visible failure
Water Vapour Transmission	ASTM E96-80	15.7g/m ² /24 hours
Diffusion Coefficient (DH20)	ASTM E96-80	5.8 x 10 ⁵ cm ² sec ⁻¹
Diffusion Resistance Coefficient (μ)	ASTM E96-80	4000
Equivalent Air Layer Thickness (Sd)	ASTM E96-80	2.8m
Water Permeability on 32MPa Concrete Substrate	Taywood Eng. Ltd Test Method 5.1 of 014H/90/4683	5.4 x 10 ⁻¹¹ m sec ⁻¹
Hydrostatic Head of Water	Taywood Eng. Ltd Test Method 5.1 of 014H/90/4683	25m-2.4x10 ⁻¹³ m sec ⁻¹ 50m-2.3x10 ⁻¹³ m sec ⁻¹ 100m-1.1x10 ⁻¹² m sec ⁻¹
VOC	SCAQMD 304-91	4g/L

SPECIFICATIONS

Waterproofing Concrete Basement, Plaza Deck

Topping of Concrete, Insulation, Slabs, Tiling

	Spreading Rate	W.F.T.	D.F.T.
1 st Coat - Elastoseal [®] HD	1.0m ² /L	1000 μm	460 μm
Whilst wet embed Crommelin [®] Polyfab			40 μm
2 nd Coat - Elastoseal [®] HD	1.3m ² /L	770 μm	350 μm
			850 μm

SUBSTRATE PREPARATION AND PRIMING

Full substrate preparation instructions can be found at 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.



7 Day Technical Support 1800 655 711

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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.

APPLICATION

Full application instructions can be found at 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 90⁰ 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.

WARRANTEES

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

Extended warrantees 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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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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