



# Elastoseal® TR

Permanent immersion, light traffic, waterproofing membrane

## Description

Elastoseal® TR is a high performance, synthetic rubber based membrane, designed to deliver exceptional waterproofing performance in areas subjected to permanent immersion, areas of non-exposed pedestrian traffic or in application under screeds and toppings.

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

## Advantages

Elastoseal® TR delivers the following advantages:

- Class III membrane
- Permanently flexible to accommodate structural movement
- Excellent adhesion to wide variety of substrates
- Crack bridging to 1.5mm (existing cracks)
- Low VOC and fast drying
- Highly durable and light pedestrian trafficable
- Suitable for permanent immersion
- Suitable for over coating with screeds, renders and water based coatings
- Suitable for the collection and storage of potable water

## Areas of Use

Elastoseal® TR is suitable for use in the following areas:

- Gutters
- Podium decks and balconies
- Fire tanks
- Roof gardens and terraces
- Retaining walls
- Slab edge waterproofing

**Note:** Elastoseal® TR is not suitable for use on large areas subject to long term UV exposure

## Substrates

Elastoseal® TR is suitable for application on:

- Concrete and brick
- Cement render
- Cement sheeting
- Steel (suitably primed)
- Plywood sheeting
- Light weight aggregate block
- Aluminium

## Testing Approvals and Standards

Elastoseal® TR is compliant with the following standards:

- AS4654 – Waterproofing of External above Ground Building Elements
- AS4020:2005 – Products for use with Drinking Water
- Green Star IEQ V2 2013
- Green Star Office V2 / V3 and Green Star Interiors
- APAS 181 – V.O.C limits

## Technical Data (@ 25°C)

Number of Coats:	2
Coverage:	1.5m <sup>2</sup> / L per coat
Wet Film Per Coat:	667 Microns
Recoat	2 – 4 Hours
Screed / Overcoat:	Minimum 24 Hours
Full Cure:	7 Days
Colour:	Light Grey
Thinner / Clean Up:	Water
Shelf Life:	12 Months

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## Ancillary Products

Contractor Polyurethane Sealant – 600ml Grey	Silicone WP Plus – 300ml Trans, Grey, White
Polyfab – reinforcing fabric	Polyfab BB – bond breaker
Contractor Applicator Brush – 100mm, 75mm	Contractor Roller Cover – 230mm

## Test Data

Properties	Measurement / Standard	Test Results
Adhesion	ASTM C794 / ASTM D4541	1.4N/mm <sup>2</sup> (Substrate Failure)
Tensile Strength	AS4654.1	3.2 MPa
Elongation	AS4858 A1(a)	312%
Water Vapour Transmission	ASTM E96	1.8g / m <sup>2</sup> / 24 Hours
Cyclic Movement	CSIRO Moving Joint Test	Pass – 50 cycles
Abrasion Resistance	ASTM D1242	0.17mm
Temperature Resistance (5°C - 85°C)	AS4654.1	Pass
Durability (Water Immersion / Chemical Resistance)	AS4654.1	Pass
Chemical Resistance	7 Day Immersion	Dilute Acids - Good
		Dilute Alkali – Good
		Salt Solutions - Good
Water Absorption	AS3558.1	2.73%
VOC Content	SCAQMD 304-91	26g / L

## Substrate Preparation & Priming

### Surface Preparation

- Surfaces must be dry
- Surfaces must be clean and free from dust and loose material
- Masonry should be flush pointed
- All high points and protrusions should be removed and surface defects brought back to an even profile using a suitable repair mortar modified with **Crommelin® Acrylic Modifier**

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

## Substrate Preparation & Priming (continued)

### Priming

- For maximum membrane adhesion, priming with **Crommelin® Powerflex®** is recommended
- Porous and / or lightly dusty surfaces may be primed with a 1:1 dilution of Elastoseal® TR and clean water
- Elastoseal® TR may be applied to thoroughly clean, dry and dust free surfaces, without priming. An adhesion test is recommended
- If substrate is not dry, prime surface with **Crommelin® WB2K®**

## 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 - 30°C
- Do not apply if relative humidity is above 85% or below 5% during initial cure phase, or if rain is expected before cure when used externally

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

## Application

- Apply **Crommelin® Polyfab BB** or bond breaking sealant to internal wall to floor and wall to wall junctions
- Apply Elastoseal® TR with **Crommelin® Contractor Brush, Crommelin® Contractor Roller** or similar or airless spray

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## Application - Continued

- Apply 1<sup>st</sup> coat of Elastoseal® TR as per recommended coverage rate 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 Elastoseal® TR coat 1
- In heavy duty areas where additional puncture resistance and thicker films are required, Elastoseal®TR used in combination with **Crommelin® Polyfab Reinforcing Fabric** will result in a dry film thickness of approximately 1500 microns
- Ensure all overlaps are at least 100mm. At expansion joints, reinforcing fabric should overlap the joint by 100mm on either side
- Apply second coat of Elastoseal® TR as per recommended coverage rate, at 90° to the first coat
- Allow to cure for a minimum of 24 hours before the application of a screed or over coating
- Ensure good air flow to assist cure
- If pond testing is required, allow to dry for a minimum of 48 hours (@ 25°C and 50% humidity). Pond test to a depth of 50mm for 2 hours, remove water and dry surface

## Clean Up

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

## Maintenance Schedule & Repair

- Elastoseal® TR 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 effected 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

- Always ensure that substrate is dry
- Do not apply during periods of extreme weather conditions – temperature or humidity
- Ensure adequate ventilation and air flow to optimise membrane curing
- Do not expose to moisture or full immersion until full cure has been achieved

**Note: Elastoseal® TR is not designed for use on large areas subject to full, long term UV exposure**

## Warrantees

Elastoseal® TR system warrantees are available for the following time periods:

10 Years	✓	15 Years	✓	20 Years	✓
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Please contact your Crommelin® representative, or the Crommelin® technical support team for detailed specifications applicable to your project

## Transport & Storage

- Size: 15L
- Weight: 20.5kg
- DG Class: N/A
- Flash Point: N/A
- UN Number: N/A
- Cool and dry storage

## Safety & First Aid

Elastoseal® TR material safety data sheet 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

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## Safety & First Aid - Continued

### 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 particular use intended. 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.

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