Technical Data Sheet

Crommelin® Waterproofing & Sealing

7 Day Technical Support 1800 655 711

01/07/2016

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
- Fire tanks
- Retaining walls
- Podium decks and balconies
- Roof gardens and terraces
- 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 sheeting
- Plywood sheeting
- Aluminium
- Cement render
- Steel (suitably primed)
- Light weight aggregate block

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^2 / 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

Waterproofing & Sealing
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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^2 (Substrate Failure)
Tensile Strength	AS4654.1	3.2 MPa
Elongation	AS4858 A1(a)	312%
Water Vapour Transmission	ASTM E96	1.8g / m^2 / 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 1st 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 90º 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 (@ 25ºc 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	✔

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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