



# TRM WeatherAll™

TRM WeatherAll™ is an acrylic-based, fibre-reinforced, flexible adhesive water-proofing membrane system used to adhere to and seal junctions between similar and/or dissimilar substrates (concrete, solid plaster, stainless steel, galvanised steel, zincalume coated steel, powder coated or anodized aluminium, timber, plywood, tiles and uPVC). When TRM ElastaBond™ is combined with ordinary Portland cement (OPC), TRM PrimeKey™ and TRM ElastaMesh™ the resultant impervious membrane TRM WeatherAll™ provides a vapour permeable, waterproof, high strength, strongly bonded, elastomeric coating to the substrates listed above.



## TRM ElastaBond™

TRM ElastaBond™ is an elastomeric water based, vapour permeable waterproofing adhesive polymer membrane.

### Features and Benefits

<b>Polymer-based</b>	Superior flexural strength; resists cracking
<b>Vapor permeable</b>	Allows substrate to breathe naturally; resists blisters caused by trapped vapor
<b>Versatile</b>	Used as an adhesive/base coat and foundation waterproofer
<b>Solvent-free</b>	Compliant with most state and local VOC requirements; environmentally friendly
<b>Water-based</b>	Cleans up with water

### TECHNICAL DATA

TEST	METHOD	CRITERIA	RESULTS
Flexibility	ASTM D-522	½ " mandrel bend @: -36, 32, 86° F (-37, 0, 30° C)	Pass
Elongation (%)	ASTM D-412	w/o mesh w/mesh	7.7 10.4
Surface Burning	ASTM E-84	< 25 Flame Spread <450 Smoke Developed	15 25
Water Penetration	ASTM E-514	10 psf pressure for 8 hours	No water penetration
Water Vapor Permeability (U.S. perms)	ASTM E-96 (modified)	28 days	3.9
Tensile Strength (psi)	ASTM D-412	28 days	470
Tensile Strength w/mesh (psi)	ASTM D-412	28 days	3880
Adhesion to Concrete (psi)	ASTM C-297	28 days	175
Hydrostatic Pressure	DIN 1048	230 foot high water column	No water penetration
Freeze/Thaw Resistance	EIMA 101.01	60 cycles	Pass, no delamination
Water Absorption (%)	ASTM D-570	24 hour immersion	4.5
Abrasion Resistance (grams per weight loss)	ASTM D-4060 Tber CS- 10 wheel	3000 cycles 6000 cycles	0.20 0.34

## TRM WEATHERALL™ PULL OFF ADHESION TEST RESULTS

SURFACE TYPE	AVERAGE RESULT (MPa)
Galvanised Metal	1.4
Stainless Steel	1.8
Powder Coating	1.6
PVC	1.7
Compressed Sheet	1.3
Timber Facia	1.6
Plywood	1.4

Test specimens are conditioned in a constant climate room set at  $50 \pm 5\%$  RH and  $22 \pm 2^\circ\text{C}$  before starting the adhesion testing. After the conditioning period, five aluminium dollies of dimension  $50 \times 50$  mm are glued with Epoxy resin to each test specimen and allowed to cure for a period of 24 hours. The adhesive strength is then measured using an Instron Universal Testing machine with a 10 kN load cell. The cross-head rate is set at 1 mm/min in tension

ASNZS4858:2004 Wet Area Membranes (minimum 0.3MPa)

### Coverage

#### As an Adhesive:

As a base coat or as a foundation waterproofer over Concrete, solid plaster, stainless steel, galvanised steel, zincalume coated steel, powdercoated or anodized aluminium, timber, plywood, ceramic tiles and uPVC surfaces.

9 - 11 m<sup>2</sup> per pail.

Coverages may vary depending on application technique, type of surface and surface condition.

### Packaging

10L pail

### Shelf Life

12 months if properly stored and sealed.

### Storage

Protect from extreme heat ( $32^\circ\text{C}$ ), freezing, and direct sunlight.

### Surface Preparation

Concrete, solid plaster, stainless steel, galvanised steel, zincalume coated steel, powdercoated aluminium, timber, plywood, tiles and uPVC surfaces require specialist preparation to receive PrimeKey™ and ElastaMesh™ reinforced ElastaBond™.

### Mixing

Mix ElastaBond™ with an equal amount by weight of Portland cement. Mix 1/2 batch at a time by adding approximately 5.5 kg cement to 1/2 pail of ElastaBond™ in a clean mixing pail. Mix with a clean, rust-free electric drill and paddle. Allow to set approximately five minutes, adjust mix to suit the surface to be applied to, then remix to a uniform consistency.

### Application

Apply only to a correctly prepared surface.

Protect from rain, freezing and continuous high humidity until completely dry.

### Curing/Drying

ElastaBond™ dries within 24 hours under normal [( $21^\circ\text{C}$ ), 50% RH] conditions. Cool, damp conditions extend drying and curing times.

### Clean Up

Clean up tools and equipment in water immediately after use. Dried material must be removed mechanically.

### Limitations

Use ElastaBond™ only when surface and ambient temperatures are above  $4^\circ\text{C}$  during application and drying period.

### Health & Safety

#### Health Precautions

Product is water-based. As with any chemical construction product, exercise care when handling.

#### Safety Precautions

Use adequate ventilation. Safety goggles and protective gloves are recommended. Remove contaminated clothing immediately.

#### First Aid

SKIN CONTACT: Wash thoroughly with soap and water.

EYE CONTACT: Flush immediately with water for 10-15 minutes and contact a physician.

RESPIRATORY PROBLEMS: Remove affected person to fresh air immediately and contact a physician.

HYGIENE: Wash hands immediately after use. Wash clothing before re-use.

#### Spills

Collect in an appropriate container. Uncured material may be removed with water.

#### Disposal

Dispose of in accordance with local, state or federal regulations.

#### Warning

KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. Consult the Material Safety Data Sheet for further health and safety information.



TRM PrimeKey™ is a water based, intermediate adhesion coat for use on organic and inorganic substrates specially prepared to receive ElastaMesh™ reinforced ElastaBond™ waterproofing membrane.

## TECHNICAL DATA

	TESTED TO	VALUE/TEST RESULT	UNIT
<b>Density</b>			
In supplied form	DIN 53 217	1.50	[kg/dm <sup>3</sup> ]
<b>Non volatile part</b> (solid material)			M-[%]
pH value		8.0 – 9.0	[1]
<b>Water vapour diffusion</b>	DIN EN ISO 7783-2	82	[g/m <sup>2</sup> .d]
Water vapour transmission rate V	DIN EN ISO 7783-2	0.25	[m]
Equivalent to air layer s <sub>d</sub> (thickness = 90 μm)	DIN EN ISO 7783-2	2800	[1]
Water vapour diffusion resistance factor μ			
<b>Water Permeability</b>	DIN EN 1062-3, §10		[kg/m <sup>2</sup> .h <sup>0.5</sup> ]
Liquid water transmission rate w			

### Substrate

Concrete, solid plaster, stainless steel, galvanised steel, zinalume coated steel, powdercoated or anodized aluminium, timber, plywood, tiles and uPVC substrates should be secured, load-bearing and specifically prepared before PrimeKey™ is applied.

Critical substrates must be proven on a test surface by a suitably qualified licensed applicator.

### Substrate preparation

Concrete, solid plaster, stainless steel, galvanised steel, zinalume coated steel, powdercoated or anodized aluminium, timber, plywood, tiles and uPVC substrates require specific preparation procedures carried out by a registered applicator.

### Coating procedure

Undercoat (if necessary)

Undercoat according to type and condition of substrate

### Material preparation

The material is - after mixing thoroughly - ready for use.

If necessary, dilute the material slightly by up to 5 - 10 % with clean water.

### Manual application

By brush or roller.

### Machine application

Not suitable for machine application (airless spray).

### Restrictions

Do not use on damp substrates.

**Drying time**

PrimeKey™ dries by water evaporation.  
 Temperature and the relative humidity affect drying time.  
 PrimeKey™ will be touch dry in 4 - 6 hours at + 20 °C and 65 % relative humidity and overcoated after approx. 8 hours.  
 Lower temperatures and/or higher humidity prolong drying times.

**Application temperature**

Apply PrimeKey™ at temperatures above+ 5 °C.

**Protective measures**

Respiratory protection is not required. Employ usual precautionary measures while handling chemicals.

**Cleaning of tools**

Wash up with water immediately following use.

**Storage**

Keep container tightly closed and store in frost-free conditions

**Storage life**

In unopened original containers product can be stored for up to 18 months.

**Transport**

No special protective measures or hazardous goods marking required

**Health and Safety****Health**

When correct procedures are followed the application of PrimeKey™ poses no known or potential health risk.

**Safety precautions**

None.

**Disposal**

Dispose of waste in accordance with Local Body regulations.

**Characteristics**

- Function - Prevents cracks forming
- Good adhesion to the substrate
- Highly tear-resistant polyester mesh
- Even impregnation

**Technical Data**

Product Group - Polyester Mesh

**TECHNICAL DATA**

CRITERION	NORM/TEST PRESCRIPT	VALUE	UNIT
Area Weight	VIAS-003	35	g/m <sup>2</sup>
Mesh Width	VIAS-001	0.5x0.5	mm

**Application****Substrate preparation**

Clean and prepare substrate. Apply etch primers and PrimeKey™ following specific substrate specifications.

**Application**

ElastaMesh™ is embedded in a 0.5mm to 1.0mm layer of ElastaBond™ using a broad knife. Following the required drying time a further coat of ElastaBond™ is applied.

**Packaging**

3 Rolls - 50m long x 100mm wide each.

**Colour**

White

**Transport**

No special protective measures or hazardous goods marking required

**Health and Safety****Health**

When correct procedures are followed the application of ElastaMesh™ poses no known or potential health risk.

**Safety precautions**

None.

**Storage****Storage conditions**

Keep dry and clean at all times