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

Features and Benefits

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

**TECHNICAL DATA**

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

<table>
<thead>
<tr>
<th>SURFACE TYPE</th>
<th>AVERAGE RESULT (MPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Galvanised Metal</td>
<td>1.4</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>1.8</td>
</tr>
<tr>
<td>Powder Coating</td>
<td>1.6</td>
</tr>
<tr>
<td>PVC</td>
<td>1.7</td>
</tr>
<tr>
<td>Compressed Sheet</td>
<td>1.3</td>
</tr>
<tr>
<td>Timber Facia</td>
<td>1.6</td>
</tr>
<tr>
<td>Plywood</td>
<td>1.4</td>
</tr>
</tbody>
</table>

Test specimens are conditioned in a constant climate room set at 50 ± 5% RH and 22 ± 2°C before starting the adhesion testing. After the conditioning period, five aluminium dollies of dimension 50 x 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.

**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 m² 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°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°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°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**

<table>
<thead>
<tr>
<th>TESTED TO</th>
<th>VALUE/TEST RESULT</th>
<th>UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>1.50</td>
<td>[kg/dm³]</td>
</tr>
<tr>
<td>Non volatile part (solid material)</td>
<td></td>
<td>M-[%]</td>
</tr>
<tr>
<td>pH value</td>
<td>8.0 – 9.0</td>
<td>[1]</td>
</tr>
<tr>
<td>Water vapour diffusion</td>
<td></td>
<td>[g/m².d]</td>
</tr>
<tr>
<td>Water vapour transmission rate V</td>
<td>DIN EN ISO 7783-2</td>
<td>82</td>
</tr>
<tr>
<td>Equivalent to air layer s₅ (thickness = 90 µm)</td>
<td>DIN EN ISO 7783-2</td>
<td>0.25</td>
</tr>
<tr>
<td>Water vapour diffusion resistance factor µ</td>
<td>DIN EN ISO 7783-2</td>
<td>2800</td>
</tr>
<tr>
<td>Water Permeability</td>
<td>DIN EN 1062-3, §10</td>
<td>[kg/m².h⁰.⁵]</td>
</tr>
</tbody>
</table>

**Substrate**
Concrete, solid plaster, stainless steel, galvanised steel, zincalume 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, zincalume 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.

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

<table>
<thead>
<tr>
<th>CRITERION</th>
<th>NORM/TEST PRESCRIPT</th>
<th>VALUE</th>
<th>UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area Weight</td>
<td>VIAS-003</td>
<td>35</td>
<td>g/m²</td>
</tr>
<tr>
<td>Mesh Width</td>
<td>VIAS-001</td>
<td>0.5x0.5</td>
<td>mm</td>
</tr>
</tbody>
</table>

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