

### PRODUCT DESCRIPTION

The TREMproof Torch/3000/4000M is a multi-layer, APP modified bituminous waterproofing system designed for podiums, roofs, terraces, and other exposed or protected applications requiring high durability, UV resistance, and flexibility. The system consists of:

1. TREMproof Torch Bitumen Primer – a solvent-based modified bitumen primer for superior adhesion to porous substrates.
2. TREMproof Torch 3000 – a 3mm APP modified bituminous base sheet with high tensile strength and elongation.
3. TREMproof Torch 4000M – a 4mm APP modified, mineral-surfaced top layer sheet providing UV stability and puncture resistance.

Together, these layers create a durable, flexible, and fully bonded waterproofing system for both exposed and protected assemblies.

### USAGE/PURPOSE

The system is suitable for use in areas such as:

- ☐ Rooftops and podium decks
- ☐ Balconies and terraces
- ☐ Plaza decks
- ☐ Retaining walls

### FEATURES & BENEFITS

- ☐ Primer enhances adhesion to porous substrates.
- ☐ Single component primer provides fast and easy installation by the contractor.



- ☐ Fully torch-applied APP modified bituminous system compliant with AS4654.1 for external waterproofing.
- ☐ System offers excellent puncture resistance.
- ☐ APP Bitumen has a higher softening/melting point, making it more appropriate for roof applications compared to SBS Bitumen.
- ☐ Consistent 1m wide material allows for more accurate material quoting and more uniform material installation.

#### TYPICAL PHYSICAL PERFORMANCE - TREMPROOF TORCH BITUMEN PRIMER

| PROPERTY                | TYPICAL VALUES             |
|-------------------------|----------------------------|
| Physical State          | Viscous Liquid             |
| Odour                   | Solvent                    |
| Net Weight              | 1 kg/litre (approximately) |
| Tack Free Time (@ 25°C) | 60 minutes                 |

#### TYPICAL PHYSICAL PROPERTIES

| CHARACTERISTICS                          | METHOD              | UNITS             | TREMPROOF 3000 | TREMPROOF 4000M                 |
|------------------------------------------|---------------------|-------------------|----------------|---------------------------------|
| Carrier                                  | Combined            | g/m <sup>2</sup>  | 180 (minimum)  | -                               |
| Total Thickness                          | EN 1849-1           | mm                | 3 (nominal)    | 4                               |
| Roll Length                              | EN 1848-1           | m                 | 10             | 10                              |
| Roll Width                               | EN 1848-1           | m                 | 1              | 1                               |
| Mass Per Surface Unit                    | EN 1849-1           | kg/m <sup>2</sup> | 3.5            | 4.7                             |
| Surface                                  |                     |                   | Silica Sand    | Grey slate with an overlap film |
| Base                                     |                     |                   | PE - Film      | PE - Film                       |
| Selva Edge                               |                     | mm                | -              | 75                              |
| Adhesion of Granules                     | EN 12039            | N/A               | -              | Pass                            |
| Watertightness                           | EN 1928             | ≥ 10 kPa          | Pass           | Pass                            |
| Tensile Strength (L)                     | EN 12311-1          | N/50mm            | 800            | 800                             |
| Tensile Strength (W)                     |                     |                   | 600            | 600                             |
| Elongation at Break                      | AS4654.1 Appendix A | %                 | 50             | 34                              |
| Tensile Strength                         | AS4654.1 Table A4   | MPa               | 4.95           | 3.17                            |
| Flexibility at Low Temperature           | EN 1109             | °C                | ≤ -8           | ≤ -8                            |
| Temperature Resistance                   | AS4654.1 Clause 2.6 | -15 to 85°C       | Pass ≥ 130     | Pass ≥ 130                      |
| Resistance to Impact (A, Hard Substrate) | EN 12691            | mm                | ≥ 1250         | ≥ 1250                          |
| Durability                               | AS4654.1 Table A4   |                   | Pass           | Pass                            |

**Note:** Typical Properties should not be used as Specifications.

### PACKAGING

- ❑ **TREMproof Torch Bitumen Primer:** 20L Drum
- ❑ **TREMproof Torch 3000:** 1m x 10m roll, 3mm thick
- ❑ **TREMproof Torch 4000M:** 1m x 10m roll, 4mm thick

### COLOUR

- ❑ **Primer:** Black
- ❑ **TREMproof Torch 3000:** Black
- ❑ **TREMproof Torch 4000M:** Grey

### SPECIFICATION CLAUSE

The waterproofing system shall be the TREMproof Torch/3000/4000M, consisting of TREMproof Torch Bitumen Primer, TREMproof Torch 3000 base layer and TREMproof Torch 4000M mineral top layer, installed in full accordance with Tremco CPG Australia's written instructions and AS4654.2.

### SHELF LIFE

12 months (all components) in unopened packaging.

### STORAGE

Store upright, in dry and shaded locations. Protect from direct sunlight and heat.

### LIMITATIONS

- ❑ Do not install on damp or contaminated surfaces.
- ❑ Re-priming may be required if left more than 72 hours or if the area has been introduced to site contaminants that would interfere with proper adhesion.
- ❑ Not suitable for potable water containment.
- ❑ Do not install over existing membranes without approval.
- ❑ TREMproof Torch 4000M is suitable for Light Maintenance Service Foot Traffic only (no heavy tools or equipment to be stored on top layer). A register should be used to record any access to the area and any maintenance works performed on the area.

### SUBSTRATE PREPARATION

#### Concrete or Masonry Surfaces

1. Concrete shall be water-cured and attain a 20 MPa minimum compressive strength. Moisture content in the substrate must be lower than 4.5% as measured using a Tramex CME 4 Moisture Meter. Depending on concrete construction and job site location, additional concrete testing may be required. Please contact your local Tremco Representative.
2. Substrate shall be free of any laitance which may inhibit sufficient adhesion. Removal of laitance can be achieved through a variety of physical abrasion methods, such as, shot blasting (preferred method), sandblasting or grinding.
3. Surface shall be properly cleaned so that the surface to receive the primer is free of mould, paint, sealers, coatings, curing agents, loose particles, and other contamination or foreign matter that may interfere with the adhesion.
4. Spalled areas shall be cleaned free of loose contaminants prior to repair. Because jobsite conditions vary, it is recommended that you contact your local Tremco Representative. Depending on the substrate and depth of the spalled areas, a EUCOcrete repair product will be recommended as the best method of repair.
5. All voids must be filled and all protrusions removed prior to application.

#### Metal Surfaces

Abrasive blast to **AS 1627.4 Class 2.5 (Near White Metal)**.

### JOBSITE MATERIALS

Recommended materials and their uses as follows:

- ❑ **TREMproof Torch Bitumen Primer:** Solvent-based adhesion primer
- ❑ **TREMproof Torch 3000:** 3mm APP modified base payer membrane
- ❑ **TREMproof Torch 4000M:** 4mm APP mineral top layer membrane
- ❑ **TREMproof Torch Anti-Root:** 3.8mm APP anti-root variant for planters

### USAGE/COVERAGE

| Product                        | Coverage Rate        | Thickness |
|--------------------------------|----------------------|-----------|
| TREMproof Torch Bitumen Primer | 6-8m <sup>2</sup> /L | -         |
| TREMproof Torch 3000           | 1.0m x 10m roll      | 3mm       |
| TREMproof Torch 4000M          | 1.0m x 10m roll      | 4mm       |

### PRIMING

- ❑ All substrates must be primed with TREMproof Torch Bitumen Primer at a rate of 6-8m<sup>2</sup>/L. Coverage rate will depend on porosity of substrate.
- ❑ Allow primer to become tack free before application of TREMproof Torch and TREMproof 3000 waterproofing membranes.
- ❑ It is best practice to prime only what can be covered with the waterproofing membrane in the same day, however sometimes this is not possible, and the primer may be left exposed for a period no greater than 72 hours before the membrane shall be installed. If the primer is left exposed longer than 24 hours, it should be visually confirmed by the applicator that no excess debris or other contaminants have been introduced that may interfere with adhesion of the waterproof membrane.

### APPLICATION PROCEDURE

#### Base Layer Sheet – TREMproof Torch 3000

- ❑ Torch apply one layer of TREMproof Torch 3000, maintaining side laps of 75mm and end laps of 150mm. Fully heat weld sheet to the primed substrate.
- ❑ Ensure that all laps are fully heat welded and finished with a heated spatula.

#### Top Layer Sheet – TREMproof Torch 4000M

- ❑ Torch apply one layer of TREMproof Torch 4000M, maintaining side laps of 75mm and end laps of 150mm.
- ❑ Fully heat weld sheet to the primed substrate.
- ❑ Ensure that all laps are fully heat welded and finished with a heated spatula

#### Membrane Protection

- ❑ A slip sheet of heavy duty builder's plastic must be installed between the membrane and any solid topping.
- ❑ An approved membrane protection board and/or drainage cell should be installed over the membrane prior to backfilling or covering the system with ballast.
- ❑ Ensure membrane termination is per Engineers specification or requirements in AS4654.2

### CLEAN UP

- ❑ Clean all adjacent areas to remove any stains or spills of the TREMproof Torch Bitumen Primer with Tremco Xylol.
- ❑ Clean tools or equipment with Tremco Xylol.

### TROUBLESHOOTING

This section describes common industry application issues when certain environmental conditions exist and their remedies. If any of these should occur, it is always recommended that you contact your local Tremco Representative.

- ❑ When a deck contains too much moisture, the heat used to install the TREMproof Torch 3000 and/or 4000M may cause bubble to form in the primer or cause blisters/delamination in the TREMproof Torch 3000 and/or 4000M membrane. If this should occur, the blisters can be cut out, allowing moisture to escape. After moisture has escaped and the surface is dry, the area can be repaired using Tremco's Torch Bitumen Primer, a repair patch of TREMproof Torch 3000 and/or 4000 (200 mm overlap) and then Tremco's Dymonic 100 to detail all seams.

### HEALTH & SAFETY PRECAUTIONS

The Safety Data Sheet (SDS) must be read and understood prior to use.

### TECHNICAL SERVICE

Tremco CPG Australia Pty Ltd has a team of Representatives who provide assistance in the selection and specification of products. For more detailed information or service and advice, call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

### GUARANTEE/WARRANTY

TREMCO products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with TREMCO written instructions and (b) in any application recommended by TREMCO, but which is proved to be defective, will be replaced free of charge. Any information provided by TREMCO in this document in relation to TREMCO's goods or their use is given in good faith and is believed by TREMCO to be appropriate and reliable. However, the information is provided as a guide only, as the actual use and application will vary with application conditions which are beyond our control. TREMCO makes no representation, guarantee or warranty relating to the accuracy or reliability of the information and assumes no obligation or liability in connection with the information. To the extent permitted by law, all warranties, expressed or implied are excluded.

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