TREMCO
Construction Products Group

TREMproof Torch 4000M

4mm APP Modified Bituminous Torch Applied Waterproofing Membrane with Mineralised Surface

PRODUCT DESCRIPTION

TREMproof Torch 4000M is a 4mm thick, APP modified bituminous torch applied waterproofing membrane which is polyester spunbond, with glass filament reinforcement. TREMproof Torch 4000M is coated with a highly UV resistant mineralised surface.

USAGE/PURPOSE

- To be used as the top wear layer in exposed torch applied membrane systems.
- Rooftops
- Plaza decks
- Retaining walls
- Balconies
- Terraces
- Planter boxes (in conjunction with TREMproof Torch Antiroot)
- Ventilated applications with TREMproof Torch Fleece Base Sheets.

FEATURES & BENEFITS

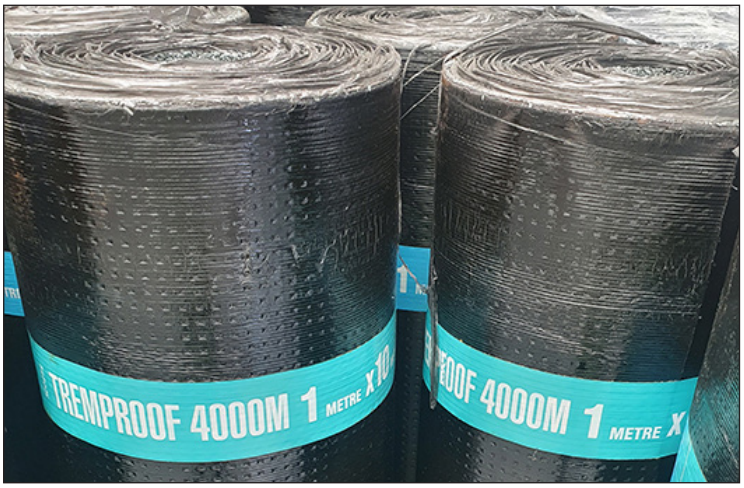
- Tested to AS4654.1 ensures product meets industry requirements and documentation.
- APP Bitumen has a higher softening/melting point, making it more appropriate for roof applications compared to SBS Bitumen.
- Consistent 1m wide material allows for more accurate material quoting and more uniform material installation.
- Low Filler Quantity assists with melting of the bitumen for ease of installation.
- High Puncture Resistance.

PACKAGING

1m wide x 10m long rolls

COLOUR

Grey



SHELF LIFE

12 months when stored as recommended in original unopened packaging.

STORAGE

Store in a dry place in an upright position in original packaging.

LIMITATIONS

TREMproof Torch 4000M is not recommended for:

- Installation over existing membranes.
- Installation on damp surfaces.
- Installation in potable water areas.
- 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.

TYPICAL PHYSICAL PROPERTIES			
CHARACTERISTICS	**METHOD**	**UNITS**	**PERFORMANCE**
Total Thickness	EN 1849-1	mm	4
Roll Length	EN 1848-1	m	10
Roll Width	EN 1848-1	m	1
Mass Per Surface Unit	EN 1849-1	kg/m^2	4.7
Surface			Grey slate with an overlap film
Base			PE - Film
Selvage Edge		mm	75
Adhesion of Granules	EN 12039	N/A	Pass
Watertightness	EN 1928	≥10 kPa	Pass
Tensile Strength (L)	EN 12311-1	N/50mm	800
Tensile Strength (W)			600
Elongation at Break	AS4654.1 Appendix A	%	34
Tensile Strength	AS4654.1 Table A4	MPa	3.17
Flexibility at Low Temperature	EN 1109	°C	≤ -8
Temperature Resistance	AS4654.1 Clause 2.6	-15 to 85°C	Pass ≥ 130
Resistance to Impact (A, Hard Substrate)	EN 12691	mm	≥ 1250
Durability	AS4654.1 Table A4		Pass

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

SUBSTRATE PREPARATION FOR 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 TREMcrete repair product will be recommended as the best method of repair.
5. All voids must be filled and all protrusions removed prior to application.

SUBSTRATE PREPARATION FOR METAL SURFACES

All surfaces shall be sand-blasted to meet the requirements of AS 1627.4, class 2.5 for "Near White Metal".

JOBSITE MATERIALS

Recommended materials and their uses are as follows:

- ❑ TREMproof Torch Bitumen Primer: Solvent based primer.
- ❑ TREMproof Torch 3000: 3mm APP modified bituminous torch applied waterproofing membrane.
- ❑ TREMproof Torch 4000M: 4mm APP mineral surfaced modified bituminous torch applied waterproofing membrane.
- ❑ TREMproof Torch Anti-Root: 3.8mm APP modified bituminous waterproofing membrane extremely effective antiroot properties.

PRIMING

- ❑ All substrates must be primed with Tremco TREMproof Torch Bitumen Primer at a rate of 6-8m^2/L.
- ❑ Allow primer to become tack free. Membrane should always be applied same day of priming application.

METHOD OF APPLICATION

- ❑ 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.

1. When a deck contains too much moisture, the heat used to install the TREMproof Torch 4000M may cause bubble to form in the primer or cause blisters/delamination in the TREMproof Torch 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 4000M (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 CPG Australia Pty Ltd products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG Australia written instructions and (b) in any application recommended by Tremco CPG Australia, but which is proved to be defective, will be replaced free of charge.

Any information provided by Tremco CPG Australia in this document in relation to Tremco CPG Australia's goods or their use is given in good faith and is believed by Tremco CPG Australia 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 CPG Australia 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.

CONTACT OUR TEAM

Tremco CPG Australia Pty Ltd
ABN: 25 000 024 064
Unit 12, 4 Southridge Street
Eastern Creek, NSW 2766

P: (02) 9638 2755
F: (02) 9638 2955
E: tremco@tremco.com.au