TREMCO

TECHNICAL DATA SHEET

TREMPROOF SBS®

SBS Modified Bitumen waterproofing membrane

PRODUCT DESCRIPTION

TREMPROOF SBS is a modified bitumen waterproofing membrane reinforced with a core of spun bond non-woven polyester with a nominal weight as indicated in the technical data. TREMPROOF SBS membrane is made by saturating and coating a reinforcement core with a homogeneous elastomeric blend of SBS (Styrene-Butadiene-Styrene), distilled bitumen and stabilizers. The elastomeric compound is carefully produced under controlled conditions to ensure its stability at atmospheric temperatures and flexibility even at very low temperatures. TREMPROOF SBS membranes are impermeable to water, very flexible, adhere effectively and easily workable around contours and protrusions.

BASIC USES

- Foundations & Basements
- Roofs & Terraces
- Pile Heads
- Wet Areas
- Swimming Pools & Water Retaining Structures
- Tunnels and Subways.

FEATURES & BENEFITS

- Superior flexibility and pliability
- Easily torch applied.
- Excellent resistance to positive water & vapor pressure Highly flexible during application at sub-zero temperatures without physical strains
- Maintains shape stability at high temperatures
- Excellent resistance to ageing and atmospheric agents.
- Accommodates structural movements.
- Resistant to chemical attack from soil or water

AVAILABILITY

Contact your Local Tremco Sales Representative.

Depending on the specification TREMPROOF SBS membrane are also manufactured in various cold flexibilities such as -15 Deg C, -20 Deg C & -25 Deg C. The top surface can be:

Plain : A thin Polyethylene film
SL : Reflective slates either in natural grey or pigmented colors
AL : Reflective aluminium film
Geo : Geotextile
Sand : The top surface is covered with a fine sand

PACKAGING

TREMPROOF SBS: 1m x 10m (4 mm & 5 mm thickness)
TREMPRIME SB: 20 L & 200 L

WARRANTY

Please refer to Stoncor Middle East Warranty guidelines.

TYPICAL PHYSICAL PROPERTIES		
PROPERTY	TEST METHOD	TYPICAL RESULTS
Membrane Thickness (+/- 5%) mm	ASTM D 751	4 mm 5 mm
Mass per unit area, Kg/m²	UEAtc	4.0 – 4.5 5.0 – 5.5
Reinforcement, g/m2 polyester	EN 1849-1	200
Softening Point [R&B], 0C	ASTM D 36	> 120
Penetration @ 25 Deg C Of Coating Mixture, dmm	ASTM D 5	25 – 35
Flexibility at low temperature, Deg C	ASTM D 5147	-5
Tensile strength (L/T), N/5cm	ASTM D 5147	900/700
Elongation of membrane (L/T) %	ASTM D 5147	45/45
Tear resistance (L/T), N	UAEtc ASTM D 5147	200/220 600/500
Lap joint strength (L/T), N/5cm	ASTM D 5147	900/750
Puncture Resistance	ASTM D 543	Static: L4 @ 25 Kg Dynamic: I4 @ 9 Joules
Water absorption, %	ASTM D 570	<0.15
Dimensional stability (L/T), %	UEAtc	±0.5 / ±0.5
Heat resistance, 2 hrs. @100 0C	UEAtc	No flow

All values given are subject to 5-20% tolerance

TREMPROOF SBS membranes are tested and conforms to the requirements of ASTM and UEAtc 2001 standards

STORAGE AND SHELFLIFE

The shelf life is 12 months if stored as per recommendations. TREMPROOF SBS membrane rolls whether loose or on pallets have to be stored vertically in a shaded area, neatly covered by a thick fabric and tied securely in a manner that will minimize exposure to sunlight & UV. The membranes shall be protected from all sources of heat and extreme temperatures. Excessive exposure to sunlight, UV and other sources of heat will result in considerable deterioration of the product and reduce its shelf life.

METHOD OF APPLICATION

Surface preparation

Concrete surfaces should be free from cavities and projecting nibs. All surfaces shall be dry and free from contamination, frost & surface laitance.

Priming

For applications on concrete, coat the substrate with TREMPRIME SB primer at the rate of 0.1 to 0.3 L/m².

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Application

The TREMPROOF SBS membranes should first be unrolled and positioned correctly. Each roll should overlap the adjacent roll by 100 mm. Once the roll has been positioned correctly, the membrane should be rolled up again, taking care not to change its orientation. Using left to right movements, heat the lower surface of the membrane with a propane gas torch. This will cause slight surface melting and the molten bitumen will adhere to the surface. Then torch on the side overlap to the recommended size of 100 mm. Continue the above method for consecutive rolls remembering end-laps must be minimum 150 mm. Heat both the overlaps and use round tipped trowel to seal the overlap. Adequate heat is confirmed when a uniform flow of melted bitumen compound flows evenly in a bead that oozes from the applied membrane's edges. Excess compound should be pressed into the seam using a heated trowel. Any un-bonded areas must be lifted and re-torched. Inspection of lap joints must be carried out to ensure total adhesion.

Protection

TREMPROOF SBS should be protected from getting damaged due to the ongoing site activities and during backfilling. Membranes laid on horizontal surfaces can be protected either by a cement sand screed (50mm thick) or by TREMCO asphaltic protection board. On vertical surfaces the membrane has to be protected with Tremco Protection board. TREMCO protection board can be fixed on the membrane by torching the underside of the board.

Tools & Equipment

The application of the TREMPROOF SBS membrane requires very limited tools like propane gas torches with related gas cylinder, a knife for cutting the membranes to size and a trowel with rounded end. Protective gloves and goggles are necessary when using the gas torch.

NOTE: All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.

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