

Shieldproof SBS 200

SBS Modified Bitumen Membrane



Description

Shieldproof SBS 200 is a torch-applied bitumen-based waterproofing membrane, modified with SBS that provides an extremely cold flexible membrane under severe cold weather conditions, provides high elongation and tensile properties as well as tear resistance, heat stability, and low temperature flexibility (at -5°C)

Uses

- Multi-storey car parks.
- Underground foundations, basements, and retaining walls.
- Car parks, bridge decks, ramps, and highways.
- Reservoirs, basins, water tanks, and canals.
- Toilets, terraces, and roofs.
- Swimming pools.

Characteristics/ Advantages

- Easy to apply.
- Excellent resistance to ageing.
- Excellent adhesion strength.
- High elongation and tensile strength.
- High puncture and tear resistance.
- Flexible at low temperatures.
- Good resistance to salts and alkalis.
- Available in plain and slated surfaces.

Standard Compliance

- ASTM D6164
- EN 13969: 2004
- EN 13707: 2004

Storage and Handling

Store the product upright in a shaded, ventilated area, away from direct heat and flame. Do not store pallets one above another.

Typical Properties

Dimension (BS EN 1848-1)	1 * 10 m/ roll (6, 8, and 20 m are available)
Thickness (BS EN 1849-1)	4 mm
Reinforcement	Non-woven Polyester 200 g/m ²
Penetration (ASTM D5)	20 dmm
Softening Point (ASTM D36)	150 °C
Heat Resistance	No flow after 135 min.@ 120 °C
Flexibility at low temperature	-5 °C
Tensile Strength (ASTM D5147) Long. Transv.	950 N/5 cm 700 N/5 cm
Lap Joint Strength Long. Transv.	950 N/5 cm 700 N/5 cm
Elongation (ASTM D5147) Long. Transv.	50% 55%
Tear Strength (ASTM D5147) Long. Transv.	600 N 500 N
Puncture Resistance (1000N) Static Dynamic	L4 L4
Dimensional Stability Long. Transv.	> 0.1% > 0.1%
Water Absorption (ASTM D5147)	<1% at 24 hrs.
Water Vapor Transmission (E96)	< 0.35 g/m ² per day
Resistance to leaking at joints	Pass

Application Instructions

- Ensure that the substrate is clean, dry, and free from dust, oil, moisture, or other contaminants that may affect adhesion. Prime the surface with any suitable bituminous solvent.
- Unroll the membrane with the polyethylene film side facing downward, making direct contact with the prepared surface. **Shieldproof SBS 200** can be installed in multiple layers.
- To fix the roll to the surface, use a propane gas burner or torch to melt off the polyethylene film, activate a thin layer of the bitumen while unrolling to ensure proper adhesion, and gradually unroll and press the membrane into place while heating.
- Side laps 100 mm and end laps 150 mm. Ensure laps are fully bonded using the torch.
- The membrane may be loosely laid, partially or fully bonded, depending on the structure and design specifications.
- **Shieldproof SBS 200** can be installed in multiple layers. Allow sufficient time before installing the second layer.

Safety Instructions

Wear PPE to ensure safe procedure, heat-resistant gloves, long sleeves, and pants to prevent burns, and safety goggles or face shields for eye protection.

Ensure adequate ventilation when working in confined spaces. Store bitumen rolls and primers away from direct sunlight, open flames, and sparks.

Use propane torches with extreme caution, and do not use it near flammable materials. For further information, refer to the Material Safety Data Sheet.

Limitations

- Do not apply the product if the ambient temperature is less than 5°C, or during rain, wind, or high humidity.
- Do not apply in areas with zero slope or poor drainage without special detailing.
- Avoid application over non-bituminous substrates such as PVC or TPO membranes without applying primer or a separation layer.
- Pallets must not be stored one above another.
- Do not install in rainy or wet weather conditions.
- Do not install the second layer continuously without proper drying of the first layer.

Technical Support

Refer to technical information, method statement, or contact technical support team for any inquiry.

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