

Shieldproof APP 180

APP Modified Bitumen Membrane



MICSHIELD®

Description

Shieldproof APP 180 is a torch-applied bitumen-based waterproofing membrane, modified with APP, reinforced with fiberglass or non-woven polyester carriers to boost its mechanical characteristics.

Uses

- Roofs (single, multi-layer).
- Sloped and flat roofs.
- Metal decks subject to significant movements.
- Tunnels, wet areas, water tanks, swimming pools, and toilets.
- Foundations and underground structures.
- Car parks, bridge decks, ramps, and highways.

Characteristics/ Advantages

- Absolute impermeability to water.
- Easy to apply.
- Superior dimensional stability.
- Resist against damping.
- Applicable for above and below grade uses.
- Ease of adhesion to a wide variety of surfaces.
- Available in plain and slated surfaces.
- Good resistance to acids and alkalis.

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
Thickness (BS EN 1849-1)	4 mm
Reinforcement	Non-woven Polyester 180 g/m2
Cold Flexibility	-2 to -5 °C
Softening Point (ASTM D36)	155 °C
Penetration (ASTM D5) @25 °C	15 – 20 dmm
Tensile Strength Long. Transv.	850 N/5 cm 600 N/5 cm
Elongation at break Long. Transv.	45 % 50 %
Tear Strength Long. Transv.	500 N 450 N
Lap Joint Strength Long. Transv.	850 N/5 cm 600 N/5 cm
Water Absorption (ASTM D5147)	< 1%
Puncture Resistance (900 N) Static Dynamic	L3 I3
Dimensional Stability Long. Transv.	> 0.6% > 0.6%
Water Vapor Transmission (E96)	< 0.5 g/m ² /24 hrs.



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.
- 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 APP 180** 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

- Keep the product in a dry, cool, ventilated, and shaded area, away from sunlight or humidity.
- Avoid walking on the hot-applied membrane.
- 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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