

Shieldproof FG



Torch-applied Oxidized Bitumen Waterproofing Reinforced with Glass Fiber

Description

Shieldproof FG is a multi-ply prefabricated torch-applied oxidized bitumen waterproofing membrane, reinforced with glass fiber and finished with polyethylene film. **Shieldproof FG** provides excellent stability, quick melt, and easy application, making it suitable for nearly all types of waterproofing applications.

Uses

- Underground foundations, basements, and retaining walls.
- Roofs, beams, and columns.
- Reservoirs, basins, water tanks, and canals.
- Toilets, terraces, and roofs.
- Swimming pools.
- Pipe capping, dump and ramp areas.
- Wet areas like kitchens and bathrooms.

Characteristics/ Advantages

- Easy to apply, and quick melting.
- Excellent resistance to ageing.
- Excellent adhesion strength.
- Resistance to dampness.
- Good resistance to salts and alkalis.
- Available in plain and slated surfaces.

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)	3, 4 mm
Cold Flexibility (ASTM D 5147)	+5 to 0 °C
Reinforcement	Glass fiber
Penetration (ASTM D5)	15 - 20 dmm
Softening Point (ASTM D36)	100 °C
Tensile Strength (ASTM D5147)	
Longitudinal	450 N/5 cm
Transversal	300 N/5 cm
Lap Joint Strength	
Longitudinal	450 N/5 cm
Transversal	300 N/5 cm
Elongation (ASTM D5147)	
Longitudinal	10%
Transversal	20%
Tear Strength (ASTM D5147)	
Longitudinal	350 N
Transversal	250 N
Puncture Resistance (ASTM E 154)	
Static	500 N
Dynamic	L2
	I2
Dimensional Stability (ASTM D 5147)	
Longitudinal	> 0.6%
Transversal	> 0.6%
Water Absorption (ASTM D5147)	<1% at 24 hrs.
Water Vapor Transmission (ASTM E 96)	< 0.50 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 FG** 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.
- 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

- Ensure the substrate temperature is above 5°C during application.
- Avoid overheating.
- Avoid applying directly over non-bituminous substrates like PVC and TPO without a primer or 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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