

# TarFelt FG – Grade 1 & 2

Glass Fiber Based Bituminous Waterproofing Membrane



## Description

**TarFelt® FG** is Glass Fiber based Bituminous Waterproofing Felt produced by coating a center core of 40 gsm Glass Fiber with bituminous coatant on both sides. Mica / sand is then spread over top and bottom layer to prevent inter layer sticking. It conforms to S: 7193 / 2013.

**TarFelt FG** is supplied in two variants – Grade 1 & Grade 2, which are respectively in conformity with IS:1346:1991 (suitable for application on surfaces such concrete, corrugated asbestos / GI sheet, timber, shell / folded plate etc) and IS:1609:1991 (suitable for silos, grain godowns, warehouses, wagons, trams, buses etc). **TarFelt® FG - Grade 2** is mainly used for damp proofing treatment for foundation, basements and retaining walls

## Characteristics

Breaking Strength, kg, Min • Wrap way • Weft way	50	Heat Resistance at $68 \pm 2$ °C, 3 hr	No flow
	30	Pressure Head Test at 300 mm height of water	No Leakage
Pliability at $23 \pm 1$ °C	No crack on unrolling	Storage sticking at $55 \pm 2$ °C, 18 hr	No Sticking
		Water absorption, %, Maximum	2

## Application

As given under Description above.

## Advantages

- Resistant to chemicals of corrosive nature.
- Rot proof.
- Proven waterproofing first generation membrane and offers impermeability to water.
- Dimensionally stable.
- Ideal waterproofing material where atmosphere is corrosive or prone to chemical vapour.
- Effective for use on walls of effluent treatment plants.

## Application Methodology

- Specification regarding the nature of treatment should be decided depending on the type of structure and climatic conditions. For example, in severe climatic conditions a heavy / extra heavy treatment should be adopted.
- Provide adequate number of drainage outlets of 100 mm diameter at least for every 40 m<sup>2</sup> of roof area.
- Clean the surface thoroughly to make it free from any foreign material. Repair all undulation and surface defect like cracks, honeycombing etc.
- PCC / cementitious coving of 75 mm radius shall be provided at all junction between vertical and horizontal faces.
- Apply a coat of ShaliTex Primer minimum @ 0.25 L / m<sup>2</sup> and allow it to dry completely.
- Use STP Bitumen 85/25 as bonding material which is to be prepared by heating it to the correct working temperature and spreading over the roof properly and uniformly @ 1.2 kg / m<sup>2</sup> per coat for waterproofing application or as specified.
- Unroll and fix **TarFelt® FG** by applying uniform pressure with hand for removal of any entrapped air.
- Provide overlap joints of 75 mm in longitudinal direction and 100 mm in transverse direction of the **TarFelt® FG** roll and seal it properly with hot bitumen.

- Terminate **TarFelt® FG** at the top of parapet if the height of parapet is up to 450 mm. In case the height of the parapet is above 450 mm, terminate **TarFelt® FG** at parapet in a groove 75 mm x 65 mm at a height of 150 – 300 mm from the finished roof level and groove shall be filled up with cement-sand mortar (1:4) with addition of ShaliPlast LW @ 200 ml / bag of cement.
- Top coat shall be finished with a layer of stone grit or pea gravel (6 mm and down size) which shall be laid by spreading it over a hot bitumen coat @ 1.2 Kg / m<sup>2</sup> laid over the felt.
- In case of non-trafficable roof, over the finished coat of bitumen, apply a coat of SuperSilverShield, bituminous based aluminium paint, @ 0.125 L / m<sup>2</sup>.
- For a trafficable roof, protect membrane with PCC / Tiles. In case of PCC, ShaliPolyFibre @ 600 grm/m<sup>3</sup> and ShaliPlast LW+ / STP No 1 (Liquid) @ 200 ml / bag of cement to be added to improve the resistance to crack formation and as well as waterproofing properties of screed.
- Use ShaliBond BS/CS cold adhesive wherever hot application is difficult or not permitted.
- For multi-layer treatment, stagger all the joints.

### Health & Safety

- Use goggles, hand gloves and shoes during application.
- Clean hands with a mild solvent and thereafter wash with warm soap water.

### Packing

- Grade 1 - 1 m x 20 m roll weighing 36 Kgs
- Grade 2 - 1 m x 10 m roll weighing 25 Kgs

### Storage

Keep in a cool dry place, under shed, away from heat. Do not stack more than three rolls in one column.



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