

# TarFelt® BH

Hessian Based Bituminous Waterproofing Membrane



STP Limited

## Description

TarFelt® BH is produced by saturating centre core of hessian with straight grade bitumen and coated with specially formulated bituminous compound on both sides. Thereafter, mica / sand is spread over bituminous surface to prevent inter layer sticking of felt during rolling and longevity during storage.

## Approval / Standards

IS: 1322-1993, Type 3 Grade 1

## Product Information

<b>Form &amp; Appearance</b>	Hessian based Bitumen impregnated felt with superficial mineral powder
<b>Handling &amp; Storage</b>	The membranes must be vertically stacked and stored in a shaded area covered by a thick fabric and tied securely in a manner that will minimize exposure to sunlight and UV. The membranes should be protected from all sources of heat and extreme temperatures. Use oldest material first.
<b>Packaging</b>	Available in 1 m x 20 m roll with minimum weight 46 kg per roll. (Tolerance: ± 1%)
<b>Shelf Life</b>	12 months when stored as per recommendations.
<b>Handling Precautions</b>	All membranes however should be disposed off only after wrapping with paper, plastic or cloth. In case of contact with human skin wash with any soft solvents. Seek medical assistance immediately in case of any allergy.

## Technical Characteristics at 50% RH

Breaking Strength, kg		Heat Resistance at 68 ± 2°C, 3 hrs	No flow
• Wrap way	>135	Pressure Head Test at 300 mm height of water	No Leakage
• Weft way	>90		
Pliability test, mm	No crack	Storage sticking at 55 ± 2°C, 18 hrs	No Sticking
Water absorption, %,	1.2 - 1.8	Bitumen content per roll, kg	23 - 24.5

## Application

TarFelt® BH is used as waterproofing membrane on the following structures:

- Inverted Roofs & parapets
- Terraces, balconies & patios
- Sunken slabs, bridges and tunnels
- Suitable for all types of roofs - concrete, asbestos, cement sheets, corrugated iron sheets, wooden decking, false ceiling tops, under Mangalore tiles, etc. virtually on all firm surfaces

## Advantages

- Economical
- Good dimensional stability under tension
- Excellent resistance to positive water and vapour pressure
- Totally impermeable
- Flexibility to adopt all types of contours

## Application Information

- ✓ **Substrate Temperature** +5°C Min / +45°C Max
- ✓ **Ambient Temperature** +5°C Min / +45°C Max
- ✓ **Substrate Moisture Content** < 5%

## Application Methodology

### ➤ Substrate Preparation

- The surface shall be cleaned thoroughly of all contaminants like dust, traces of curing compound, oil and grease. All surface imperfections and protrusions shall be removed and repaired.

### ➤ Waterproofing Application

- Provide adequate number of drainage outlets of 100 mm diameter at least for every 40 m<sup>2</sup> of roof area.
- PCC / cementitious coving of 75 mm radius shall be provided at all junctions between vertical and horizontal faces.
- Apply a coat of **ShaliTex Primer** minimum @ 0.3 - 0.4 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 correct working temperature and be spread 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® BH** by applying uniform pressure with hand over coat of bitumen for removal of any entrapped air with overlaps of 75 mm in longitudinal direction and 100 mm in transverse direction.
- Terminate **TarFelt® BH** 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® BH** at parapet in a groove 75 mm x 65 mm at parapet at a height of 150 - 300 mm from the roof level and groove shall be filled up with a polymer modified mortar prepared with **ShaliCrete-Cement-Sand (1 : 2 : 5)** after applying a bond coat with **ShaliSBR Latex**.
- 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 @ 1.5 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**, a bituminous based aluminium paint, @ 0.125 L / m<sup>2</sup>.
- For a trafficable roof, protect membrane with PCC / Tiles. In case of PCC, with **ShaliPlast IW** @ 200 ml / bag of cement to be added to improve waterproofing properties of the screed.

### Precautions

- Handle the membrane carefully and use this membrane with melted bitumen 85/25.
- Don't overheat bitumen as this will expose the reinforcement and cause damage to it.
- Any un-bonded areas must be lifted and re-torched/sealed by bitumen.
- Do not attempt to reseal by torching the top surface of the membrane.
- All angles and abutments should be sealed with extra care to ensure full bonding.

### Value base of product data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

### Health and Safety information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent **Material Safety Data Sheet**.

- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.



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#### Product Range

- Waterproofing and Insulation ■ Road Surfacing
- Sealants and Additives ■ Pipeline Coating
- Protective / Anti-Corrosive Coating ■ Epoxy Flooring
- Grouts / Admixtures ■ RestoFix- Repair / Rehabilitation
- Other Construction Chemicals



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