

## OVERVIEW

RANSFELT-FG consists Glass Fibre Tissue resin bonded mat is treated/coated with bitumen. The coatant i.e. the mixture of bitumen and inert fillers as specified by IS specifications is uniformly applied. The resultant coated felt shall be given superficial application of mineral powder/mica to prevent the layer of the coated felt sticking together in the roll. This also gives useful protection against the effects of the sun and when laid on roofs does not need further treatment.

## PROPERTIES

- Excellent resistance to positive water & vapor pressure.
- Good heat resistance.
- Good dimensional stability under tension.
- Can accommodate structural movements because of excellent flexibility.
- High puncture and fatigue resistance.
- High tensile and tear strengths.
- Resistant to water borne chemicals.

## AREAS OF USE

RANSFELT-FG is used as a waterproofing membrane on the following structures:

- Inverted Roofs & parapets
- Terraces, balconies & patios
- Sunken slabs
- Bridges & tunnels
- Airport aprons & ramp areas

## GRADES

1. Grade I - 1M x 20M (36 Kgs.)
2. Grade II - 1M x 10M (25 Kgs.)

## INSTRUCTIONS FOR USE

The application temperature should be between 5°C to 45°C. Application procedures may vary slightly depending upon site conditions. The general recommended guidelines for the application of the waterproofing system are as follows:

## SURFACE 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. Structurally unsound and friable concrete must be removed and repaired with a suitable RANSCRETE AP concrete repair mortar.

## APPLICATION

- A layer of RANSBITU-PMR @ 0.3-0.4 Litre/Sqmt.
- A layer of RANS BITUMEN 85/25 @ 1.2kgs/Sqmt.
- A layer of RANSFELT-FG as per IS : 1322-1993 is laid over the coat of bitumen with overlaps of 100mm. (Grade I or Grade II as specified)
- A layer of RANS BITUMEN 85/25 @ 1.5kgs/Sqmt.
- The finishing topping is by Gravel or RANSANTICO-AL or Tiles.

## CAUTION

Handle the membrane carefully and use this membrane with melted bitumen 85/25, don't over heat bitumen as this will expose the reinforcement and cause damage to it.

## SEALING

Seal both the overlaps and use round tipped trowel to seal the overlap. Adequate heat is confirmed when a uniform flow of melted bitumen compound

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flows evenly in a bead that oozes from the applied membrane's edges. Excess compound should be smoothed and pressed into the seam using a heated trowel. 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. Up stand.

Flashing details are accomplished using cut pieces of **RANSFELT-FG** in combination with appropriate prefabricated flashing components. The same side lap and end lap rules apply to flashing details as to field membrane.

All angles and abutments should be sealed with extra care to ensure full bonding.

Wash all the tools and tackles with industrial solvent immediately after the application is completed.

#### **HEALTH & SAFETY**

Avoid prolonged contact with eyes and skin. For detailed information refer to relevant material safety data sheet.

#### **PACKGING & STORAGE**

**RANSFELT-FG** is packaged in (20.00 Mtr L x 1.00 Mtr W) as per given details:-

**Weight Available: - 30 Kgs, 36 Kgs & 46 Kgs.**

Store in a clean dry area protected from direct sunlight and extreme heat and cold.

Unopened condition rolls can be stored for 12 months. Use oldest material first.

**TECHNICAL  
DATA**

<b>Product</b>	FIBREGLASS FELT
<b>CHARACTERISTICS OF FELT</b>	<b>FIBRE GLASS BASED IS : 7193-1994</b>
<b>Breaking Strength Test</b>	
Warp Way	50 kg
Weft Way	30 kg
<b>Nominal weight</b>	Type 2 Grade I - 1M x 20M (36 Kgs.) Type 2 Grade II - 1M x 10M (25 Kgs.)
<b>Pliability Test</b>	
-Warp Way	No crack on unrolling felt when layers are separated
-Weft Way	
<b>Heat Resistance Test</b>	No melting of Bitumen Compound
<b>Pressure Heat Test</b>	No leakage
<b>Storage Sticking Test</b>	Separated without damaging the layers
<b>Water Absorption Test</b>	2.0 % maximum
<b>Service Temperature</b>	+5°C to +65°C
<b>Packaging</b>	(1Mx20M)
<b>Storage</b>	12 months in original condition.

**PICTURES/IMAGES AT GLANCE**



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