

TarFelt[®] APP



APP Modified Non-woven Polyester Based Pliable Membrane With Release Film

STP Limited

Description

TarFelt[®] APP is uniquely formulated, cold applied, pre-fabricated, economic elastomeric waterproofing membrane with non-woven polyester mat core.

TarFelt[®] APP forms an impervious, flexible waterproofing layer which can withstand normal movement of structure without showing any deterioration and serve for a prolonged period of time.

TarFelt[®] APP is normally used in protected roofing and waterproofing applications in a single layer system and is also recommended as base layer in multilayer system in various applications, including damp-proofing.

TarFelt[®] APP may, if so desired, be applied with hot bitumen of 30/40 grade after removing the release film. However, for application with hot bitumen, as aforesaid, **TarFelt[®] APP** is also produced without release film and is recommended for such application as it is slightly cheaper without any compromise on its characteristics. Bitumen Grade 85/25 or 90/15 shall be used for vertical surface.

Characteristics - Physical

Softening Point, °C	> 145	Heat Resistance, 120 °C, 2 hr	No flow
Penetration @ 25 °C, dmm	15 ± 5	Cold Flexibility, 0 °C	Does not break

Characteristics - Technical

Property	Standard	Result
Elongation @ break, % <ul style="list-style-type: none">LongitudinalTransverse	ASTM D-5147	> 30 > 30
Tensile Strength, N/5 cm <ul style="list-style-type: none">LongitudinalTransverse	ASTM D-5147	> 250 > 120
Tearing Strength, N/7.5 cm <ul style="list-style-type: none">LongitudinalTransverse	ASTM D-5147	> 250 > 90

Application

- Waterproofing of
 - corrugated asbestos / metal sheets.
 - Basement / retaining walls in low water pressure area.
 - Residential roofs / podiums.
- As base layer in multi-layer waterproofing system.
- As **virtual self-adhesive** waterproofing membrane in combination with ShaliBond APP and can be applied to the surface without any torching or heating.
- As DIY (Do-It-Yourself) and repair product.

Advantages

- Total impermeability.
- Excellent resistance to ageing and weathering.
- Outstanding bond-ability and seam integrity.

- Stability at high temperatures.
- Very high resistance to impact and puncture.
- Simple, single-layer installation reduces labour and error.
- Good cold flexibility.

Application Methodology

➤ Surface Preparation

- Remove all loose gravel, dirt, oil, grease and foreign matter by jet of dry air and clean the surface mechanically or by grinding to make it smooth before application.
- Ensure that the moisture content in the prepared surface does not exceed 5%.
- Correct all construction joints by grouting with ShaliGrout IP at 1 m apart and opening of joints in “V” cut groove and fill with ShaliFix RM C, using ShaliSBR Latex as the bond coat.
- Build-up gradient minimum 1 in 100 with PCC admixed with ShaliPlast LW +.
- Ensure that level of all drain mouth is lower than deck slab level by at least 15 mm.
- Provide 75 mm x 75 mm coving made out of PCC admixed with ShaliPlast LW + and using ShaliSBR Latex as bond coat.

➤ Waterproofing Application

- Apply ShaliBond APP uniformly on the substrate, approx. @ 3 m² / kg (theoretical, depend upon surface condition) by trowel / brush and allow the solvent to evaporate. Unroll **TarFelt® APP** over the tacky surface and bond it to the surface by applying uniform pressure. This makes **TarFelt® APP** virtual self-adhesive membrane. Rub one membrane by wire brush before applying ShaliBond APP for lap joint area.
- **Alternatively**, apply **TarFelt® APP** with hot bitumen 30/40 grade @ 800 grm / m² with Pour & Roll Method in horizontal surface and bitumen 30/40 grade @ 600 grm / m² in vertical surface.
- Cut 1” deep groove 300 - 450 mm above the roof surface on the parapet wall and seal the edge of **TarFelt® APP** inside the groove with polymer modified mortar. In case of low height parapets, terminate **TarFelt® APP** over the parapet.
- Seal all the corners of membrane with the ShaliBond APP / STP make 30/40 grade bitumen for getting better result.
- Allow 3-4 days for full dry.

➤ Protection of Waterproofing

- For UV protection, **TarFelt® APP** waterproofing membrane shall be finally coated with Super Silver Shield for non trafficable roof. For trafficable roof, **TarFelt APP** Waterproofing system shall be protected with PCC of 50 mm thick / tiles loosely laid or fixed over a layer of 120 – 150 gsm ShaliGeoText, spot bonded to **TarFelt APP** membrane with ShaliBond APP.

Health & Safety

- Avoid contact with skin / eyes, and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapor.
- Wear suitable protective clothing, gloves and eye protection
- In case of contact with skin, 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 immediately with plenty of clean water and seek medical advice.
- If swallowed seek medical attention immediately. Do not induce vomiting.

Packing

Rolls are available in 1 m x 20 m in 1.5 & 2 mm thicknesses.

Storage

Keep in cool and dry place, under shed, away from heat.



Advisory Cell
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Waterproofers to the Nation

STP's Businesses
Waterproofing & Insulation
Road Surfacing
Pipeline Coating
Protective / Anti-Corrosive Coating
GARA (Grouts & Admixtures)
Sealant & Adhesives
Repairs & Rehabilitation
Epoxy Floorings

