

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 hrs	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">• Longitudinal• Transverse	ASTM D-5147	> 30 > 30
Tensile Strength, N/5 cm <ul style="list-style-type: none">• Longitudinal• Transverse	ASTM D-5147	> 250 > 120
Tearing Strength, N/7.5 cm <ul style="list-style-type: none">• Longitudinal• Transverse	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.
- For overlapping of joints, rub the polyethylene side of the membrane by wire brush, apply ShaliBond APP over the rubbed area, allow it to be tacky and then affix bituminous side of the TarFelt APP after removal of the release film.
- For longitudinal and transverse joints overlap of 75 mm and 100 mm respectively is desired.
- **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.



STP Limited
Enhancing Structures' Life

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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