

## PRODUCT DATA SHEET

## Sarnafil® TG 76-18 Felt AP

## POLYMERIC TPO MEMBRANE FOR ADHERED AND MECHANICAL FIXED ROOF WATERPROOFING

## DESCRIPTION

Sarnafil® TG 76-18 Felt AP (thickness 1.8 mm) is felt-backed, multi-layer synthetic roof waterproofing membranes designed for durable and efficient roofing applications. Sarnafil® TG 76-18 Felt AP is based on premium-quality flexible polyolefins (FPO/TPO), contains stabilizers, and is reinforced with an internal polyester inlay and polyester fleece backing in accordance with EN 13956; it is hot-air weldable, UV-resistant, and suitable for use in all global climatic conditions

## USES

Roof waterproofing membrane for use within complete Sarnafil® roofing systems, suitable for mechanically attached systems using approved fastening methods over a wide range of substrates, as well as fully adhered systems bonded to approved substrates.

## AREAS OF APPLICATION

- New Roofs
- Reroofs
- Recovers

## FEATURES

- Proven performance over decades
- Various colors available
- Resistant to permanent UV irradiation
- High dimensional stability due to glass fleece inlay
- Resistant to all common environmental influences
- Resistant to micro-organisms
- Compatible to old bitumen
- Hot air welding without use of open flames
- Increased resistance to damage through wind uplift
- Highly reflective
- Excellent tear strength resistance
- Recyclable

## CERTIFICATES AND TEST REPORTS

- Sarnafil® TG 76-18 Felt AP is designed and manufactured to meet the most internationally recognized standards.
- Polymeric sheets for roof waterproofing according to EN 13956, certified by notified body 1213-CPD-3914 and provided with the CE marking.
- External fire performance tested according to ENV 1187 and classified according to EN 13501-5: BROOF(t1).
- Official Quality Approvals and Agreement Certificates and approvals.
- Monitoring and assessment by approved laboratories.
- Quality Management system in accordance with EN ISO 9001/14001.

## PRODUCT INFORMATION

## Packaging

Sarnafil® TG 76-18 Felt AP standard rolls are wrapped individually in a blue PE-foil.

Packing unit: see price list

Roll length: 15.00 m

Roll width: 2.00 m

Roll weight: 63.00 kg

|                       |                                                                                                                                                                                                                   |                          |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Appearance and colour | Surface:                                                                                                                                                                                                          | matt                     |
|                       | Colours:                                                                                                                                                                                                          |                          |
|                       | Top surface:                                                                                                                                                                                                      | white (nearest RAL 9016) |
|                       | Bottom surface:                                                                                                                                                                                                   | black                    |
| Shelf life            | 5 years from date of production in unopened, undamaged and original packaging. Product does not expire if correctly stored.                                                                                       |                          |
| Storage conditions    | Rolls must be stored between +5 °C and +30 °C in a horizontal position on pallet, protected from direct sunlight, rain and snow. Do not stack pallets of rolls or any other material during transport or storage. |                          |
| Product declaration   | EN 13956 – polymeric sheets for roof waterproofing ASTM D 6878                                                                                                                                                    |                          |
| Visible defects       | Pass                                                                                                                                                                                                              | (EN 1850-2) (ASTM D 751) |
| Length                | 15 m (-0 % / +5 %)                                                                                                                                                                                                | (EN 1848-2) (ASTM D 751) |
| Width                 | 2 m (-0.5 % / +1 %)                                                                                                                                                                                               | (EN 1848-2) (ASTM D 751) |
| Effective thickness   | 1.8 mm (-5 % / +10 %)                                                                                                                                                                                             | (EN 1849-2) (ASTM D 751) |
| Straightness          | ≤ 30 mm                                                                                                                                                                                                           | (EN 1848-2)              |
| Flatness              | ≤ 10 mm                                                                                                                                                                                                           | (EN 1848-2)              |
| Mass per area         | 2.10 kg/m <sup>2</sup> (-5 % / +10 %)                                                                                                                                                                             | (EN 1849-2)              |

## TECHNICAL INFORMATION

|                                             |                                                                                     |                                                |                           |
|---------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------|---------------------------|
| Resistance to impact                        | hard substrate                                                                      | ≥ 800 mm                                       | (EN 12691)                |
|                                             | soft substrate                                                                      | ≥ 1500 mm                                      |                           |
| Hail resistance                             | rigid substrate                                                                     | ≥ 25 m/s                                       | (EN 13583)                |
|                                             | flexible substrate                                                                  | ≥ 37 m/s                                       |                           |
| Resistance to static loading                | soft substrate                                                                      | ≥ 20 kg                                        | (EN 12730)                |
|                                             | rigid substrate                                                                     | ≥ 20 kg                                        |                           |
| Tensile strength                            | longitudinal (md) <sup>1)</sup>                                                     | ≥ 800 N/50 mm                                  | (EN 12311-2)              |
|                                             | transversal (cmd) <sup>2)</sup>                                                     | ≥ 600 N/50 mm                                  |                           |
|                                             | <sup>1)</sup> md = machine direction<br><sup>2)</sup> cmd = cross machine direction |                                                |                           |
| Elongation                                  | longitudinal (md) <sup>1)</sup>                                                     | ≥ 50 %                                         | (EN 12311-2)              |
|                                             | transversal (cmd) <sup>2)</sup>                                                     | ≥ 50 %                                         |                           |
|                                             | <sup>1)</sup> md = machine direction<br><sup>2)</sup> cmd = cross machine direction |                                                |                           |
| Dimensional stability                       | longitudinal (md) <sup>1)</sup>                                                     | ≤  0.2  %                                      | (EN 1107-2)               |
|                                             | transversal (cmd) <sup>2)</sup>                                                     | ≤  0.1  %                                      |                           |
|                                             | <sup>1)</sup> md = machine direction<br><sup>2)</sup> cmd = cross machine direction |                                                |                           |
| Joint peel resistance                       | ≥ 300 N/50 mm                                                                       |                                                | (EN 12316-2)              |
| Joint shear resistance                      | ≥ 500 N/50 mm                                                                       |                                                | (EN 12317-2)              |
| Foldability at low temperature              | ≤ -30 °C                                                                            |                                                | (EN 495-5)                |
| External fire performance                   | BROOF(t1) < 20°                                                                     |                                                | (EN 1187)<br>(EN 13501-5) |
| Reaction to fire                            | Class E                                                                             | (EN ISO 11925-2, classification to EN 13501-1) |                           |
| Effect of liquid chemicals, including water | On request                                                                          |                                                | (EN 1847)                 |

|                                |                                                                                             |           |
|--------------------------------|---------------------------------------------------------------------------------------------|-----------|
| Exposure to bitumen            | Pass <sup>3)</sup><br><small><sup>3)</sup> Sarnafil® T is compatible to old bitumen</small> | (EN 1548) |
| Resistance to UV exposure      | Pass (> 5 000 h / grade 0)                                                                  | (EN 1297) |
| Water-vapour transmission rate | μ = 150 000                                                                                 | (EN 1931) |
| Watertightness                 | Pass                                                                                        | (EN 1928) |

## APPLICATION INFORMATION

|                         |                           |
|-------------------------|---------------------------|
| Ambient air temperature | -20 °C min. / +60 °C max. |
| Substrate temperature   | -30 °C min. / +60 °C max. |

## SYSTEM INFORMATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System structure | <p>Wide range of accessories is available e.g. prefabricated parts, roof drains, scuppers and walkway pads.</p> <p><b>The following materials shall be used:</b><br/> Sarnafil® T 66-15 D Sheet for detailing Sarnafil® T Metal Sheet<br/> Sarnabar® S-U Bar / Sarnafast®<br/> Sarnafil® T Prep / Sarnafil® T Wet Task Set Sarnacol® / make reference to<br/> <b>“APAC Sarnacol adhesive selection guide”</b><br/> Sarnafil® T Clean</p> |
| Compatibility    | <p>Sarnafil® TG 76-18 Felt AP membrane can be installed on all thermal insulation or levelling layers suitable for roofing. No additional separation layer is required. Sarnafil® TG 76-18 Felt AP membrane is suitable for installation directly on top of existing, carefully cleaned, levelled bituminous roofing, e.g. reroofing over old flat roofs.</p>                                                                            |

## BASIS OF PRODUCT DATA

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

## IMPORTANT CONSIDERATIONS

### Geographical / Climate

The use of Sarnafil® TG 76-18 Felt AP membrane is limited to geographical locations with average monthly minimum temperatures of -50 °C. Permanent ambient temperature during use is limited to +50 °C.

## ECOLOGY, HEALTH AND SAFETY

### REGULATION (EC) NO 1907/2006 - REACH

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

# APPLICATION INSTRUCTIONS

Installation works to be carried out only by Sika instructed contractors for roofing.

## SUBSTRATE QUALITY

The substrate surface must be uniform, smooth and free of any sharp protrusions or burrs, etc. The supporting layer must be compatible to the membrane and free of oil and grease. Cut open any blisters in the old waterproofing and repair. The safety of the existing roof assembly in terms of wind uplift must be ensured. Any insufficiently secured sections or components (e.g. chippings, slating etc.) must be removed to provide a smooth surface. Pay attention due to some adhesives during curing time require moisture (PU types). The base layer may therefore be slightly moist (no puddles). If the relative humidity is below 35 % moisten the adhesive after it has been applied.

## APPLICATION METHOD / TOOLS

### Installation procedure:

According to the valid installation instructions for systems with Sarnafil® TG 76 Felt-types for fully adhered roofs and mechanical fastened system.

### Fixing Method – Mechanically (Sarnafast® System)

The waterproofing membrane is installed by loose laying without stretching or installing the membrane under tension and is mechanically fastened within the seam overlaps. Overlap seams are hot-air welded using approved hot-air welding equipment. Sarnafil® TG 76-18 Felt AP must always be installed at right angles to the deck direction and is fixed using Sarnafast® fasteners with barbed washers or tubes positioned within the overlap, 35 mm from the membrane edge, with a minimum overlap of 120 mm. Fastener spacing is determined in accordance with project-specific Sika wind load calculations. At upstands and all penetrations, the membrane must be mechanically secured using Sarnabar® or S-U Bar. A 4 mm diameter S-Welding Cord is applied to protect the Sarnafil® TG 76-18 Felt AP roof covering against tearing and peeling due to wind uplift.

### Adhering:

Adhering is carried out using the recommended Sarnacol® adhesive suitable for the substrate and only at temperatures above +5 °C.

Sarnafil® TG 76-18 Felt AP is laid out and aligned with the felt-free edge along upstands. From the end of the run, the membrane is folded back to approximately halfway and the adhesive is evenly applied to the exposed substrate using the appropriate application tool in accordance with the Sarnacol adhesive installation instructions. The membrane is immediately rolled into the wet adhesive and pressed down using a weighted roller (approx. 30 kg). The remaining half of the membrane is then adhered in the same manner. Depending on roof geometry and site conditions, subsequent membranes are joined either with butt joints or installed alongside with overlapped joints. Peeling protection must be provided at all upstands and roof penetrations during installation by using a Sarnabar® or S-U Bar mechanically secured to the substrate.

Welding of the adhered Sarnafil® TG 76-18 Felt AP membranes may only be carried out once the adhesive bond has achieved sufficient strength. Butt joints must be covered with a Sarnafil® TG 66-15 cover strip welded on both sides.

### Welding Method:

Before welding the seams are prepared with Sarnafil® T Prep. Overlap seams are welded by electric hot air welding equipment, such as manual hot air welding machines and pressure rollers or automatic hot air welding machines with controlled hot air temperature.

### Recommended type of equipment:

- Leister Triac for manual welding
- Leister Varimat or Uniroof for automatic welding

Welding parameters including temperature, machine speed, air flow, pressure and machine settings must be evaluated, adapted and checked on site according to the type of equipment and the climatic situation prior to welding. The seams must be mechanically tested with screwdriver (5 mm) to ensure the integrity / completion of the weld. Any imperfections must be rectified by hot air welding.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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### **Product Data Sheet**

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