BUILDING TRUST

PRODUCT DATA SHEET

Sarnafil® AT-18 FSA

1.8 mm FPO polymeric waterproofing membrane for bonded flat roofs

DESCRIPTION

Sarnafil® AT-18 FSA (thickness 1.8 mm) is a multi-layer, hot-air weldable hybrid plastic sealing membrane based on high-quality flexible polyolefins (FPO) with internal reinforcement made of glass fleece and glass fabric. The backside of the membrane is coated with polyester fleece and a self-adhesive layer.
Type of application: DE/E1 FPO-BV-V-GV-GG-PV-1.8-SK

USES

Self-adhesive membrane for bonded flat roofs (also under gravel fill and roof greening).

FEATURES

- Fast processing
- Immediate resistance to wind loads
- Long service life
- High resistance to weathering
- High resistance to hailstorms
- High resistance to mechanical impact
- Resistance to normal environmental influences

SUSTAINABILITY

For further information, please refer to the EPD.

CERTIFICATES AND TEST REPORTS

- Polymeric membrane for roof waterproofing according to DIN EN 13956, approved by certification body 1213-CPR-6909 and bearing the CE mark
- DIN/TS 20000-201:2025-02
- DIN 18531-2
- Fire behaviour according to DIN EN 13501-1; Class E
  Tested against external fire exposure according to DIN EN 1187 and classified according to DIN EN 13501-5; BROOF(t1)
- Resistance to flying sparks and radiant heat according to DIN 4102/Part 7

PRODUCT INFORMATION

Composition	Flexible polyolefin (FPO)	
Packaging	Rolls are individually wrapped in PE foil. Packaging units and other web cuts: see current price and product range overview.	
	Roll width:	2 m
	Roll length:	15 m
	Roll weight:	74 kg
Colour	Top layer:	window grey (similar to RAL 7040)
	Bottom layer:	dark grey

Shelf life	18 months from production date	
Storage conditions	The product must be stored in original unopened and undamaged sealed packaging in dry conditions and temperatures between +5 °C and +30 °C. Store in a horizontal position. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage. Always refer to the packaging.	
Product declaration	DIN EN 13956 / DIN SPEC 20000-201	
Visible defects	Pass	(EN 1850-2)
Length	15 m (+0.75 m / -0 m)	(EN 1848-2)
Width	2 m (+0.02 m / -0.01 m)	(EN 1848-1)
Effective thickness	1.8 mm (+0.18 mm / -0.09 mm)	(EN 1849-2)
Straightness	≤ 30 mm	(EN 1848-2)
Flatness	≤ 10 mm	(EN 1848-2)
Mass per area	2.45 kg/m² (+0.25 kg/m² / -0.13 kg/m²)	(EN 1849-2)

TECHNICAL INFORMATION

Resistance to impact	Hard substrate	≥ 1.000 mm	(EN 12691)
	Soft substrate	≥ 2.000 mm	
Hail resistance	Hard substrate	≥ 33 m/s	(EN 13583)
	Soft substrate	≥ 40 m/s	
Resistance to static loading	Hard substrate	≥ 20 kg	(EN 12730)
	Soft substrate	≥ 20 kg	
Resistance to root penetration	Pass		(EN 13948)
Dimensional stability	Longitudinal (MD)	≤ 0.2 %	(EN 1107-2)
	Transversal (CMD)	≤ 0.1 %	
	MD = machine direction CMD = cross machine direction		
Joint peel resistance	Failure mode C. No failure of the joint		(EN 12316-2)
Joint shear resistance	≥ 400 N/50 mm		(EN 12317-2)
Foldability at low temperature	≤ -50 °C		(EN 495-5)
External fire performance	B_{Roof} (t1), < 20°	pass	(EN 13501-5) (DIN 4102-7) (DIN CEN/TS 1187)
	Resistance to flying sparks and radiant heat (for roof structures tested by Sika) Complies for roof pitches < 20°	pass	
Reaction to fire	Class E		(EN 13501-1)
Exposure to bitumen	Pass		(DIN EN 1548)
Resistance to UV exposure	Pass	(>5000 h / Class 0)	(EN 1297)
Artificial ageing	Pass		(EN 1297)
Diffusion resistance to water vapour	μ = 190.000 (±30 %)		(DIN EN 1931)

Maximum tensile force	Longitudinal (MD)	≥ 500 N/50 mm	(EN 12311-2)
	Transversal (CMD)	≥ 500 N/50 mm	
	MD = machine direction CMD = cross machine direction		
Elongation at maximum tensile force	Longitudinal (MD)	≥ 2 %	(EN 12311-2)
	Transversal (CMD)	≥ 2 %	
	MD = machine direction CMD = cross machine direction		

APPLICATION INFORMATION

Ambient air temperature	Maximum	+60 °C
	Minimum	+5 °C
Substrate temperature	Maximum	+60 °C
	Minimum	+5 °C

SYSTEM INFORMATION

System structure

Complementary products:
- Sarnavap® 5000 E SA (vapor barrier)
- SikaRoof® Primer 600
- SikaRoof® Board Adhesive (PU-adhesive foam)
- Stainless steel grid (for Sika® Roof Control System)
- Sika® Speed Clean (Cleaner)
- Sarnafil® T Clean

Compatibility

The product is compatible with the following materials:
- Laminated PU boards: no primer on Alu-laminated
- EPS boards: without primer
- Felt-laminated mineralfiber boards: SikaRoof® Primer-600
- Laminated mineralfiber boards (e.g. Bondrock): SikaRoof® Primer-600
- OSB boards: SikaRoof® Primer-600
- Concrete: SikaRoof® Primer-600
- Metal (aluminium, galvanized steel, minimum 0.75 mm): SikaRoof® Primer-600
- Bitumen sheets: SikaRoof® Primer-600

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.

ECOLOGY, HEALTH AND SAFETY

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

The general installation and processing instructions in the relevant Sarnafil installation guide must be observed. These
can be requested from Sika Germany. The work should be carried out by installers trained by Sika.

SUBSTRATE QUALITY

The substrate must be solid, clean, dry and free of foreign matter and separating agents such as oil and grease.

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 the 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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