

PRODUCT DATA SHEET

Sarnafil® AT-18

Polymeric waterproofing membrane

DESCRIPTION

This Sarnafil® AT-18 (thickness 1.8 mm) is a multi-layer, hot-air weldable hybrid waterproofing membrane based on high-quality flexible polyolefins (FPO) with internal reinforcement made of glass fleece and polyester fabric. The backside of the membrane is equipped with a polypropylene fleece.

Application type: DE/E1 FPO-BV-V-PG-GV-1.8

USES

Sarnafil® AT-18 may only be used by experienced professionals.

Roof waterproofing membrane for mechanically fastened roofs and roofs under ballast.

FEATURES

- Long service life
- High resistance to hail damage
- High resistance to mechanical impact
- Resistance to roots
- compatible with bitumen

PRODUCT INFORMATION

Composition	Flexible polyolefin (FPO)						
Reinforcing material	Internal reinforcement made of glass fleece and polyester fabric. Backside with polypropylene fleece (max. 70 g/m²).						
Packaging	Rolls are individually wrapped in PE foil. Packaging units and other web cuts: see current price and product range overview. <table><tr><td>Roll length:</td><td>15 m</td></tr><tr><td>Roll width:</td><td>2 m</td></tr><tr><td>Roll weight:</td><td>60 kg</td></tr></table>	Roll length:	15 m	Roll width:	2 m	Roll weight:	60 kg
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Roll width:	2 m						
Roll weight:	60 kg						

SUSTAINABILITY

- IBU Environmental Product Declaration (EPD)
- Cradle to Cradle Certified™; Silver Level

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

Appearance and colour	Top layer :	beige window grey (similar to RAL 7040) traffic white (similar to RAL 9016)
	Bottom layer:	dark grey
Shelf life	In unopened and undamaged original packaging, the product retains its properties.	
Storage conditions	The Product must be stored in original unopened and undamaged sealed packaging in dry conditions and temperatures between -5 °C and +40 °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/TS 20000-201:2025-02	
Visible defects	Pass	(DIN EN 1850-2)
Length	15 m (-0 % / +5 %)	(DIN EN 1848-2)
Width	2 m (-0,5 % / +1 %)	(DIN EN 1848-2)
Effective thickness	1.8 mm (-5 % / +10 %)	(DIN EN 1849-2)
Straightness	≤ 30 mm	(DIN EN 1848-2)
Flatness	≤ 10 mm	(DIN EN 1848-2)
Mass per area	2 kg/m ² (-5 % / +10 %)	(DIN EN 1849-2)

TECHNICAL INFORMATION

Resistance to impact	Hard substrate	≥ 1.250 mm	(DIN EN 12691)
	Soft substrate	≥ 2.500 mm	
Hail resistance	Hard substrate	≥ 27 m/s	(DIN EN 13583)
	Soft substrate	≥ 38 m/s	
Resistance to static loading	Hard substrate	≥ 20 kg	(DIN EN 12730)
	Soft substrate	≥ 20 kg	
Resistance to root penetration	Pass		(DIN EN 13948)
Tensile strength	Longitudinal (md) ¹⁾	≥ 950 N/50 mm	(DIN EN 12311-2)
	Transversal (cmd) ²⁾	≥ 900 N/50 mm	
¹⁾ md = machine direction ²⁾ cmd = cross machine direction			
Elongation	Longitudinal (md) ¹⁾	≥ 15 %	(DIN EN 12311-2)
	Transversal (cmd) ²⁾	≥ 15 %	
¹⁾ md = machine direction ²⁾ cmd = cross machine direction			
Linear dimensional change	Longitudinal (md) ¹⁾	≤ 0.4 %	(DIN EN 1107-2)
	Transversal (cmd) ²⁾	≤ 0.2 %	
¹⁾ md = machine direction ²⁾ cmd = cross machine direction			
Tear strength	Longitudinal (md) ¹⁾	≥ 300 N	(DIN EN 12310-2)
	Transversal (cmd) ²⁾	≥ 300 N	
¹⁾ md = machine direction ²⁾ cmd = across the machine direction			
Joint peel resistance	Failure mode C. No failure of the joint		(DIN EN 12316-2)
Joint shear resistance	≥ 400 N/50 mm		(DIN EN 12317-2)
Foldability at low temperature	≤ -50 °C		(DIN EN 495-5)

External fire performance	$B_{ROOF} (t1) < 20^{\circ}$	(DIN CEN/TS 1187)
	Resistance to flying sparks and radiant heat (for roof structures tested by Sika)	(DIN EN 13501-5)
	Complies for roof pitches $< 20^{\circ}$	(DIN CEN/TS 1187)
		(DIN 4102-7)
Reaction to fire	Klasse E	(DIN EN ISO 11925-2) (Classification according to DIN EN 13501-1)
Exposure to bitumen	Pass Sarnafil® AT-18 is resistant to old bitumen	(DIN EN 1548)
Resistance to UV exposure	Pass (> 5.000 h / Klasse 0)	(DIN EN 1297)
Water-vapour transmission rate	$\mu = 190.000 (\pm 30 \%)$	(DIN EN 1931)
Watertightness	Pass	(DIN EN 1928)

APPLICATION INFORMATION

Ambient air temperature	-20 °C min. / +60 °C max.
Substrate temperature	-25 °C min. / +60 °C max.

SYSTEM INFORMATION

System structure	Complementary products: <ul style="list-style-type: none"> ▪ Sarnafil® AT-18 FSA P ▪ Sarnafil® T metal sheet ▪ Sarnabar® / Sarnafast® Fastening system ▪ Sarnafil® T Prep
Compatibility	Sarnafil® AT-18 can be laid on all standard thermal insulation materials and levelling layers. No additional separating layer is required. A fire protection layer may be necessary. Sarnafil® AT-18 is suitable for laying directly on existing, sufficiently cleaned and levelled bitumen waterproofing, e.g. renovation of old flat roofs. Colour changes to the surface are possible in direct contact with bitumen.

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

The use of Sarnafil® AT-18 is limited to geographical regions with a minimum monthly average temperature of -50 °C. The continuous 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

The general installation guidelines and processing instructions in the currently valid Sarnafil® installation instructions must be observed. These can be requested from Sika Germany. Processing should be carried out by Sika-trained installers.

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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