

Sikaplan®-15 G

Polymeric membrane for roof waterproofing

Product Description Sikaplan®-15 G (thickness 1.5(- 5 % / + 10 %)mm) is a polyester reinforced multi-layer, synthetic roof waterproofing sheet based on premium-quality polyvinyl chloride (PVC) according to EN 13956. (DE/E1 PVC-P-NB-V-PG-1,5.)

Uses Roof waterproofing membrane for exposed flat roofs:

- Loose laid and mechanically fastened

Characteristics / Advantages

- Outstanding resistance to weathering, including permanent UV irradiation
- High resistance to ageing
- High resistance to hailstones
- Resistant to all common environmental influences
- High resistance to mechanical influences
- High tensile strength
- Excellent flexibility in cold temperatures
- High water vapour permeability
- Outstanding weldability
- Recyclable

Approval / Standards

- Polymeric sheets for roof waterproofing according to EN 13956, certified by notified body 1213-CPD-4125/4127 and provided with the CE-mark.
- DIN V 20000-201
- DIN 18531-2
- Reaction to fire according to EN 13501-1, class E
- External fire performance tested according to ENV 1187-1: 2001
- Resistance to flying sparks and radiating heat DIN 4102 / part 7
- Official Quality Approvals and Agreement Certificates and approvals.
- Monitoring and assessment by approved laboratories.
- Quality Management system in accordance with DIN ISO 9001.



Appearance / Colours	Surface:	structured		
	Colours:			
	Top surface:	light grey (nearest RAL 7047)		
	Bottom surface:	dark grey (Top surface of sheet in other colours available on request, subject to minimum order quantities.)		
Packaging	Packing unit:	21 standard rolls		
	Roll length:	20.00 m		
	Roll width:	0.77 m	1.00 m	2.00 m
	Roll weight:	27.72 kg	36.00 kg	72.00 kg
	Packing unit:	11 rolls	21 rolls	
	Roll length:	20.00 m	20.00 m	
	Roll width:	1.54 m	1.54 m	
	Roll weight:	55.4 kg	55.4 kg	
Storage Conditions / Shelf-Life	Rolls must be stored in a horizontal position on pallet and protected from direct sunlight, rain and snow. Product does not expire during correct storage.			

Technical Data

Product Declaration		DIN EN 13956 / DIN V 20000-201
Visible defects	Pass	DIN EN 1850-2
Length	20.00 m (- 0% / + 5%)	DIN EN 1848-2
Width	1.54 / 2.00 m (- 0.5% / + 1%)	DIN EN 1848-2
Straightness	≤ 30 mm	DIN EN 1848-2
Flatness	≤ 10 mm	DIN EN 1848-2
Effective thickness	1.5 mm (- 5% / + 10%)	DIN EN 1849-2
Mass per unit area	1.8 kg/m ² (- 5% / + 10%)	DIN EN 1849-2
Water tightness	Pass	DIN EN 1928
Water tightness	400 kPa/72h	DIN V 20000-201 / DIN EN 1928
Effects of liquid chemicals, including water	On request	DIN EN 1847
External fire performance Part 1-4	BROOF(t1) < 20°,	DIN V ENV 1187, DIN EN 13501-5
Resistance to flying sparks and radiating heat (for sika proofed roof structures)	Fulfilled for roof pitch ≤ 20°	DIN V ENV 1187, DIN 4102-7
Reaction to fire	Class E	DIN EN ISO 11925-2, classification to DIN EN 13501-1
Hail resistance		DIN EN 13583
rigid substrate	≥ 18 m/s	
flexible substrate	≥ 30 m/s	
Joint peel resistance	≥ 300 N/50 mm	DIN EN 12316-2
Joint shear resistance	≥ 600 N/50 mm	DIN EN 12317-2
Joint shear resistance	tear outside of the groove weld	DIN V 20000-201 / DIN EN 12317-2
Water vapour transmission properties	μ = 20'000 (±30%)	DIN EN 1931
Tensile strength		DIN EN 12311-2
longitudinal (md)¹⁾	≥ 1000 N/50 mm	
transversal (cmd)²⁾	≥ 900 N/50 mm	
Elongation		DIN EN 12311-2
longitudinal (md)¹⁾	≥ 15%	
transversal (cmd)²⁾	≥ 15%	
Resistance to impact		DIN EN 12691
hard substrate	≥ 400 mm	Method A
soft substrate	≥ 700 mm	Method B
Tear strength		DIN EN 12310-2
longitudinal (md)¹⁾	≥ 150 N	
transversal (cmd)²⁾	≥ 150 N	
Dimension stability		DIN EN 1107-2
longitudinal (md)¹⁾	≤ 0.5 %	
transversal (cmd)²⁾	≤ 0.5 %	
Foldability at low temperature	≤ -25 °C	DIN EN 495-5
UV exposure	Pass (> 5'000 h)	DIN EN 1297
UV exposure	Grade 0	DIN V 20000-201 / DIN EN 1297

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- 1) md = machine direction
2) cmd = cross machine direction
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System Information

System Structure	Ancillary products according to local price list: <ul style="list-style-type: none">• Sikaplan® -S 15 / S 20, un-reinforced sheet for detailing• Moulded corner pieces, prefabricated corners and pipe flashings• Sikaplan® Metal Sheet Type S• Sikaplan® Cleaner 2000• Sikaplan® Cleaner L 100• Sikaplan® Welding Agent• Sikaplan® Seam Sealant, light grey• Sikaplan® C 733 (Contact adhesive)
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Application Conditions / Limits

Temperature	The use of Sikaplan® -15 G membranes is limited to geographical locations with average monthly minimum temperatures of -25 °C. Permanent ambient temperature during use is limited to +50 °C.
Compatibility	Not compatible with direct contact to other plastics, e.g. EPS, XPS, PUR, PIR, PF. Not resistant to tar, bitumen, oil and solvent containing materials.

Installation Instructions

Installation Method / Tools	See current install-instruction, which you can request at Sika
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Value Base	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
Local Restrictions	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.
Ecology, Health and Safety Information	A Safety Data Sheet following EU-Regulation is not needed to bring the product to the market, to transport or to use it. The product does not damage the environment when used as specified.
REACH	<p>European Community Regulation on chemicals and their safe use (REACH¹: EC 1907/2006)</p> <p>This product is an article within the meaning 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. Therefore, there are no registration requirements for substances in articles within the meaning of Article 7.1 of the Regulation.</p> <p>Based on our current knowledge, this product does not contain SVHC² (substances of very high concern) from the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w).</p> <p>¹= Registration, Evaluation, Authorisation and Restriction of Chemicals ² = Substances of very high concern</p>
Protective Measures	Based on the properties of the product protective measures are not necessary. Fresh air ventilation must be ensured, when working (welding) in closed rooms. Local safety regulations must be observed.
Transportation Class	The product is not classified as hazardous good for transport.
Disposal	The material is recyclable. Disposal must be according to local regulations. There is the possibility to attend to the take-back-system ROOFCOLLECT. Please contact ISD INTERSEROH Entsorgungsdienstleistungs GmbH Tel.: (02203) 9147-1366

Legal note: 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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