Roofing Product Data Sheet Edition 06.2013 Identification no. 02 09 05 01 100 0 150000 Version no. 07

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.	
Uses	Roof waterproofing membrane for exposed flat roofs:	
	Loose laid and mechanically fastened	
Characteristics /	 Outstanding resistance to weathering, including permanent UV irradiation 	
Advantages	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.	
	Reaction to fire according to EN 13501-1.	
	External fire performance tested according to ENV 1187 and classified according to EN 13501-5: BROOF(t1), BROOF(t3).	
	 Official Quality Approvals and Agrement Certificates and approvals. 	
	Monitoring and assessment by approved laboratories.	
	Quality Management system in accordance with EN ISO 9001/14001.	
	Production according to responsible Care policy of Chemical Industry.	



Appearance / Colours	Surface:	structured
	Colours:	
	Top surface:	light grey (nearest RAL 7047) slate grey (nearest RAL 7015) brick red (nearest RAL 8004) pale green (nearest RAL 6021) traffic white (nearest RAL 9016)
	Bottom surface:	dark grey
	Top surface of she order quantities.	et in other colours available on request, subject to minimum
Packaging	Packing unit: se	ee price list
	Roll length: 20	0.00 m
	Roll width: 0.7	7 m 1.00 m 1.54 m 2.00 m
	Roll weight: 27.7	2 kg 36.00 kg 55.44 kg 72.00 kg
Storage Conditions / Shelf-Life		ed in a horizontal position on pallet and protected from direct snow. Product does not expire during correct storage.
	Do not stack pallet	s of rolls during transport or storage.

Technical Data		
Product Declaration	EN 13956: 2005	
Visible defects	Pass	EN 1850-2
Length	20.00 m (- 0% / + 5%)	EN 1848-2
Width	1.54 / 2.00 m (- 0.5% / + 1%)	EN 1848-2
Straightness	≤ 30 mm	EN 1848-2
Flatness	≤ 10mm	EN 1848-2
Effective thickness	1.5 mm (- 5% / + 10%)	EN 1849-2
Mass per unit area	1.8 kg/m² (- 5% / + 10%)	EN 1849-2
Water tightness	Pass	EN 1928
Effects of liquid chemicals, including water	On request	EN 1847
External fire performance Part 1-4	BROOF(t1) < 20°, BROOF(t3) < 10°	EN 13501-5
Reaction to fire	Class E	EN ISO 11925-2, classification to EN 13501-1
Hail resistance rigid substrate flexible substrate	≥ 18 m/s ≥ 30 m/s	EN 13583
Joint peel resistance	\geq 300 N/50 mm	EN 12316-2
Joint shear resistance	\geq 600 N/50 mm	EN 12317-2
Water vapour transmission properties	μ = 20'000	EN 1931
Tensile strength longitudinal (md) ¹⁾ transversal (cmd) ²⁾	≥ 1000 N/50 mm ≥ 900 N/50 mm	EN 12311-2
Elongation		EN 12311-2
longitudinal (md) ¹⁾ transversal (cmd) ²⁾	≥ 15% ≥ 15%	
Resistance to impact		EN 12691
hard substrate soft substrate	≥ 400 mm ≥ 700 mm	
Tear strength		EN 12310-2
longitudinal (md) ¹⁾ transversal (cmd) ²⁾	≥ 150 N ≥ 150 N	
Dimension stability longitudinal (md) ¹⁾ transversal (cmd) ²⁾	≤ 0.5 % ≤ 0.5 %	EN 1107-2
Foldability at low temperature	≤ -25 °C	EN 495-5
UV exposure	Pass (> 5000 h / grade 0)	EN 1297
	¹⁾ md = machine direction ²⁾ cmd = cross machine direction	
USGBC: LEED Rating RAL 9016 SR types RAL 9016 traffic white (initial)	Conform on the SS Credit 7.2 Heat Island Effect . Roofs SRI > 78	ASTM E 1980-01

All values related to the reflectance / emittance properties provided in this Product Data Sheet refer to the initial (as produced) status of the product.

System Structure	Ancillary products according to local price list:		
	Sikaplan [®] -18 D, un-reinforced sheet for detailing		
	 Moulded corner pieces, prefabricated corners and pipe flashings Sika-Trocal[®] Metal Sheet Type S 		
	Sika-Trocal [®] Cleaner 2000		
	 Sika-Trocal[®] Cleaner L 100 Sika-Trocal[®] Welding Agent 		
	 Sika-Trocal[®] Seam Sealant 		
	Sika-Trocal [®] C 733 (Contact adhesive)		
Application Details			
Substrate Quality	The substrate surface must be uniform, smooth and free of any sharp protrusions of burrs, etc.		
	Sikaplan [®] -15 G must be separated from any incompatible substrates by an effective separation layer to prevent accelerated ageing. Prevent direct contact with bitumen, tar, fat, oil, solvent containing materials and other plastic materials, e.g. expanded polystyrene (EPS), extruded polystyrene (XPS), polyurethane (PUR), polyiso-cyanurate (PIR) or phenolic foam (PF) as this could adversely affect the product properties.		
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	Installation procedure: According to the valid installation instructions for Sikaplan [®] -G -type system for mechanically fastened roofs.		
	Fixing Method:		
	Loosely laid and mechanically fastened. The roof waterproofing sheet is installed by loose laying and mechanical fastening in seam overlaps or independent from overlaps.		
	Welding Method:		
	Overlap seams are welded by electric hot welding equipment, such as manual hot air welding machines and pressure rollers or automatic hot air welding machines with controlled hot air temperature capability of minimum 600 °C.		
	Recommended type of equipment: LEISTER TRIAC PID for manual welding and LEISTER VARIMAT 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 effective width of welded overlaps should be minimum 20 mm.		
	The seams must be mechanically tested with screw driver or steel needle to ensure the integrity/completion of the weld. Any imperfections must be rectified by hot air welding.		
	Cold welding of sheet overlaps with Sika-Trocal [®] Welding Agent is permitted for small repair work within application limits. Cold welded seam edges must be sealed		

Notes on Installation /	Installation works must be carried out only by Sika instructed contractors for roofing.	
Limits	Temperature limits for the installation of the membrane:	
	Substrate temperature:-25 °C min. / +60 °C max.Ambient temperature:-15 °C min. / +60 °C max.	
	Installation of some ancillary products, e.g. contact adhesives/thinners is limited to temperatures above $+5$ °C. Please refer to the respective Product Data Sheets.	
	Special measures may be compulsory for installation below +5 °C ambient temperature due to safety requirements in accordance with national regulations	
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 EC-Regulation 1907/2006, Article 31 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	European Community Regulation on chemicals and their safe use (REACH: EC 1907/2006)	
REACH		
REACH	EC 1907/2006) 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	
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Legal note: The information, and, in particular, the recommendations relating to the application and enduse 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 fitnes out of any legal relationship whatsoever, can be inferred recommendations, or from any other advice offered. The suitability for the intended application and purpose. Sika products. The proprietary rights of third parties must be d current terms of sale and delivery. Users must always re Data Sheet for the product concerned, copies of which w

ourpose, nor any liability arising formation, or from any written ict must test the productor to change the properties of its BUIL COUNCIL rs are accepted subject to our cent issue of the local Product MEMBER request.



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