

PRODUCT DATA SHEET

Sikaplan® G-15

Polymeric membrane for mechanically fastened roof waterproofing

PRODUCT DESCRIPTION

Sikaplan® G-15 (thickness 1.5mm) is a polyester reinforced multilayer, synthetic roof waterproofing sheet based on premium-quality polyvinyl chloride (PVC) according to EN 13956.

USES

Waterproofing membrane for exposed flat roofs:

- Mechanically fastened roofing systems.
- Detailing.

CHARACTERISTICS / ADVANTAGES

- Resistant to permanent UV irradiation.
- Resistant to permanent wind exposure.
- High water vapour permeability.
- Resistant to all common environmental influences.
- Hot air welding without use of open flames.
- Recyclable.

ENVIRONMENTAL INFORMATION

- Environmental Product Declaration (EPD) available.

APPROVALS / STANDARDS

- BBA Agreement Certification (09/4668).
- EN13501-5 Broof(t4) (as part of system).
- 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. Class E (membrane alone).
- Factory Mutual (FM) Approval Class: 4470.
- Quality Management system in accordance with EN ISO 9001/14001.

PRODUCT INFORMATION

Product Declaration	EN 13956	
Packaging	Packing unit: see price list Roll length: 20.00 m Roll width: 0.77 m Roll weight: 27.72 kg	
Shelf Life	5 years from date of production in unopened, undamaged and original packaging.	
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.	
Appearance / Colour	Surface:	structured
	Colours:	
	Top surface:	light grey (nearest RAL 7047) lead grey (nearest RAL 7012)
	Bottom surface:	dark grey
	Top surface of sheet in other colours available on request, subject to minimum order quantities.	
Visible Defects	Pass	(EN 1850-2)
Length	20 m (- 0 % / + 5 %)	(EN 1848-2)
Width	0.77 m / 1.00 m / 1.54 m / 2.00 m (- 0.5 % / + 1 %)	(EN 1848-2)
Effective Thickness	1.5 mm (- 5 % / + 10 %)	(EN 1849-2)
Straightness	≤ 30 mm	(EN 1848-2)
Flatness	≤ 10 mm	(EN 1848-2)
Mass per unit area	1.8 kg/m ² (- 5 % / + 10 %)	(EN 1849-2)

TECHNICAL INFORMATION

Resistance to Impact	hard substrate	≥ 400 mm	(EN 12691)
	soft substrate	≥ 700 mm	
Hail Resistance	rigid substrate:	≥ 18 m/s	(EN 13583)
	flexible substrate:	≥ 30 m/s	
Tensile Strength	longitudinal (md) ¹⁾	≥ 1000 N/50 mm	(EN 12311-2)
	transversal (cmd) ²⁾	≥ 900 N/50 mm	
	1) md = machine direction 2) cmd = cross machine direction		
Elongation	longitudinal (md) ¹⁾	≥ 15 %	(EN 12311-2)
	transversal (cmd) ²⁾	≥ 15 %	
	1) md = machine direction 2) cmd = cross machine direction		
Tear Strength	longitudinal (md) ¹⁾	≥ 150 N	(EN 12310-2)
	transversal (cmd) ²⁾	≥ 150 N	
	1) md = machine direction 2) cmd = cross machine direction		
Joint Peel Resistance	no failure of the joint		(EN 12316-2)
Joint Shear Resistance	≥ 600 N/50 mm		(EN 12317-2)

Dimensional Stability	longitudinal (md) ¹⁾	≤ 0.5 %	(EN 1107-2)
	transversal (cmd) ²⁾	≤ 0.5 %	
1) md = machine direction 2) cmd = cross machine direction			

Solar Reflectance Index	Colour	Initial	3 years aged	Test institute	(ASTM E 1980)
	RAL 9016	109	81	CRRC	
	RAL 7047	61		Sika	

CRRC tested products are listed in Cool Roof Rating Council (CRRC) product data base.

Foldability at Low Temperature	≤ -25 °C	(EN 495-5)
Water Tightness	Pass	(EN 1928)
Water Vapour Transimission	μ = 20 000	(EN 1931)
Effect of Liquid Chemicals, Including Water	On request	(EN 1847)
UV Exposure	Pass (> 5000 h / grade 0)	(EN 1297)
External Fire Performance	Broof(t4)(As part of roof system) EN13501-5	
Reaction to Fire	Class E	(EN ISO 11925-2, classification to EN 13501-1)

SYSTEM INFORMATION

Compatibility	Not compatible with direct contact to other plastics, e.g. EPS, XPS, or PF. Not resistant to tar, bitumen, oil and solvent containing materials.
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APPLICATION INFORMATION

Ambient Air Temperature	-15 °C min. / +60 °C max.
Substrate Temperature	-25 °C min. / +60 °C max.

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.

LIMITATIONS

Geographical / Climate

The use of Sikaplan® G-15 membranes is limited to geographical locations with average monthly minimum temperatures of -25 °C. Permanent ambient temperature during use is limited to +50 °C.

ECOLOGY, HEALTH AND SAFETY

Fresh air ventilation must be ensured, when working (welding) in closed rooms.

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

SUBSTRATE QUALITY

The substrate surface must be uniform, smooth and free of any sharp protrusions or burrs, etc. Sikaplan® G-15 must be separated from any incompatible substrates by an effective separation layer to prevent accelerated ageing. Prevent from direct contact with bitumen, tar, fat, oil, solvent containing materials and direct contact to other plastic materials, e.g. expanded polystyrene (EPS), extruded polystyrene (XPS) and polyurethane (PUR) as this could adversely affect the product properties.

APPLICATION METHOD / TOOLS

Installation procedure:

According to the valid installation instructions for Sikaplan®-G -type system for mechanically fastened roofing systems.

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.

Recommended type of equipment:

LEISTER for manual 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 must be minimum 20 mm.

The seams must be mechanically tested with screw driver to ensure the integrity / completion of the weld. Any imperfections must be rectified by hot air welding.

APPLICATION

Installation works must be carried out only by Sika® trained roofing Contractors.

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.

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.

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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