

## PRODUCT DATA SHEET

# Sikaplan® SGmA-15

Polymeric membrane for ballasted roof waterproofing

### DESCRIPTION

Sikaplan® SGmA-15 is a multi-layer, synthetic roof waterproofing sheet based on premium-quality polyvinyl chloride (PVC) with inlay of glass non-woven according to EN 13956.

### USES

Roof waterproofing membrane for roofs with ballast (e.g. gravel, concrete slabs, green roof (intensive, extensive), terraces with pedestrian traffic):

- Loose laid with ballast.
- Green roofs.
- Utility roofs.

### FEATURES

- High dimensional stability due to glass fleece inlay
- High water vapour permeability
- Resistant to all common environmental influences
- Resistant to mechanical influences
- Resistant to micro-organisms
- Resistant to root penetration
- Hot air welding without use of open flames
- Specially formulated for below grade applications, including plaza decks, planters, foundations, balconies, terraces and split slab applications.
- Recyclable

### CERTIFICATES AND TEST REPORTS

- Polymeric sheets for roof waterproofing according to EN 13956, certified by notified body 1213-CPD-4125 and provided with the CE marking.
- Reaction to fire according to EN 13501-1.
- Root penetration resistance tested according to FLL-Test Procedure.
- Official Quality Approvals and Agreement 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.

### PRODUCT INFORMATION

<b>Packaging</b>	Packing unit:	see price list	see price list
	Roll length:	15.00 m	20.00 m
	Roll width:	2.00 m	2.00 m
	Roll weight:	57.00 kg	76.00 kg
<b>Appearance and colour</b>	Surface:	slightly structured	

**Colours:**

Top surface:	beige
Bottom surface:	beige

<b>Shelf life</b>	5 years from date of production in unopened, undamaged and original packaging.	
<b>Storage conditions</b>	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.	
<b>Product declaration</b>	EN 13956	
<b>Visible defects</b>	Pass	(EN 1850-2)
<b>Length</b>	15.00 / 20.00 m (-0 % / +5 %)	(EN 1848-2)
<b>Width</b>	2.00 m (-0.5 % / +1 %)	(EN 1848-2)
<b>Effective thickness</b>	1.5 mm (-5 % / +10 %)	(EN 1849-2)
<b>Straightness</b>	≤ 30 mm	(EN 1848-2)
<b>Flatness</b>	≤ 10 mm	(EN 1848-2)
<b>Mass per area</b>	1.9 kg/m <sup>2</sup> (-5 % / +10 %)	(EN 1849-2)

**TECHNICAL INFORMATION**

<b>Resistance to impact</b>	hard substrate	≥ 600 mm	(EN 12311-2)
	soft substrate	≥ 1000 mm	
<b>Resistance to static loading</b>	soft substrate	≥ 20 kg	(EN 12730)
	rigid substrate	≥ 20 kg	
<b>Resistance to root penetration</b>	Pass		(EN 13948)
<b>Tensile strength</b>	longitudinal (md) <sup>1)</sup>	≥ 9.5 N/mm <sup>2</sup>	(EN 12311-2)
	transversal (cmd) <sup>2)</sup>	≥ 8.5 N/mm <sup>2</sup>	
	<sup>1)</sup> md = machine direction <sup>2)</sup> cmd = cross machine direction		
<b>Elongation</b>	longitudinal (md) <sup>1)</sup>	≥ 200 %	(EN 12311-2)
	transversal (cmd) <sup>2)</sup>	≥ 200 %	
	<sup>1)</sup> md = machine direction <sup>2)</sup> cmd = cross machine direction		
<b>Dimensional stability</b>	longitudinal (md) <sup>1)</sup>	≤  0.3  %	(EN 1107-2)
	transversal (cmd) <sup>2)</sup>	≤  0.3  %	
	<sup>1)</sup> md = machine direction <sup>2)</sup> cmd = cross machine direction		
<b>Joint shear resistance</b>	≥ 500 N/50 mm		(EN 12317-2)
<b>Foldability at low temperature</b>	≤ -25 °C		(EN 495-5)
<b>Reaction to fire</b>	Class E		(EN ISO 11925-2, classification to EN 13501-1)
<b>Effect of liquid chemicals, including water</b>	On request		(EN 1847)
<b>Resistance to UV exposure</b>	Not resistant for permanent exposure to UV irradiation.		
<b>Water-vapour transmission rate</b>	μ = 20 000		(EN 1931)
<b>Watertightness</b>	Pass		(EN 1928)

## APPLICATION INFORMATION

Ambient air temperature	-15 °C min. / +60 °C max. for hot air welding +5 °C min. / +60 °C max. for solvent welding
Substrate temperature	-25 °C min. / +60 °C max. for hot air welding +5 °C min. / +60 °C max. for solvent welding

## SYSTEM INFORMATION

System structure	<b>The following accessories shall be used:</b> <ul style="list-style-type: none"><li>▪ Sikaplan® D-18 unreinforced sheet for detailing</li><li>▪ Sikaplan® S-15 unreinforced sheet for detailing</li><li>▪ Sikaplan® SG-15 or Sikaplan® G-15 roofing sheet for exposed connections and flashings</li><li>▪ Moulded corner pieces, prefabricated corners and pipe flashings</li><li>▪ Sika-Trocal® Metal Sheet Type S</li><li>▪ Sika-Trocal® Cleaner-2000</li><li>▪ Sika-Trocal® Cleaner L-100</li><li>▪ Sika-Trocal® Welding Agent</li><li>▪ Sika-Trocal® Seam Sealant</li><li>▪ Sika-Trocal® C-733 (Contact adhesive)</li></ul>
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.

## 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

### Geographical / Climate

The use of Sikaplan®-SGmA 1.5 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® SGmA-15 must be separated from any incompatible substrates by an effective separation layer to prevent accelerated ageing.

### APPLICATION

Installation works must be carried out only by Sika instructed contractors for roofing.

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.

### APPLICATION METHOD / TOOLS

#### Installation procedure:

According to the valid installation instructions of manufacturer for Sikaplan® SGmA-types for ballasted roof system.

#### Fixing Method:

Loosely laid and covered with ballast. Mechanical fixing at the roof perimeter to keep membrane in place. The roof waterproofing membrane is installed by loose laying and covered with ballast according to local wind load situation. If ballast weight is insufficient to restrain against wind uplift the membrane may be fixed mechanically in seam overlap or independent from overlap.

### 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
- 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 works. The effective width of welded overlaps should be minimum 20 mm.

If local weather conditions allow solvent welding of sheet overlaps with Sika-Trocral® Welding Agent, it is permitted for Sikaplan® SGmA-15 system with ballast. The effective width of welded overlap by solvent welding must be 30 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.

Solvent welded seam edges must be sealed by Sika-Trocral® Seam Sealant after testing.

## 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 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.

#### Sika Gulf B.S.C. (c)

Tel: +973 177 38188

Email: info@bh.sika.com

Sika Kuwait Cons. Mat. & Paints Co WLL

Tel: +965 22 282 296

Email: sika.kuwait@kw.sika.com

Web: gcc.sika.com

#### Sika UAE LLC

Sika UAE LLC (Branch)

Sika International Chemicals LLC

Tel: +971 4 439 8200

Email: info@ae.sika.com

Web: gcc.sika.com

#### Sika Saudi Arabia Limited

Riyadh / Jeddah / Dammam / Rabigh

Tel: +966 9200 22167

Email: info@sa.sika.com

Web: gcc.sika.com

#### Sika MB LLC

Oman

Tel: +968 22 826 500

Email: info@om.sika.com

Web: gcc.sika.com



ISO 9001, 14001, 45001 – SGS:  
- Sika UAE LLC  
- Sika International Chemicals LLC  
- Sika Gulf B.S.C. (c)  
ISO 9001, 14001 – SGS:  
- Sika Saudi Arabia Limited  
ISO 9001, 14001 – TÜV:  
- Sika UAE LLC (Branch)  
ISO 9001 – SGS:  
- Sika MB LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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