

PRODUCT DATA SHEET

Sikaplan® SGmA-24

POLYMERIC MEMBRANE FOR BALLASTED ROOF WATERPROOFING



DESCRIPTION

Sikaplan® SGmA-24 is a multi-layer, synthetic roof waterproofing sheet based on premium-quality plasticized polyvinyl chloride (PVC-p) 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

CHARACTERISTICS / ADVANTAGES

- 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

APPROVALS / CERTIFICATES

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

Packaging	Roll length:	15.00 m
	Roll width:	2.00 m
	Roll weight:	90.00 kg
Appearance / Colour	Surface:	slightly structured
	Colours:	
	Top surface:	beige
	Bottom surface:	beige
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.	
Product Declaration	EN 13956	
Visible Defects	Pass	(EN 1850-2)
Length	15.00 m (- 0 % / + 5 %)	(EN 1848-2)
Width	2.0 m (- 0.5 % / + 1 %)	(EN 1848-2)
Effective Thickness	2.4 mm (- 5 % / + 10 %)	(EN 1849-2)
Straightness	≤ 30 mm	(EN 1848-2)
Flatness	≤ 10 mm	(EN 1848-2)
Mass per unit area	3.0 kg/m ² (- 5 % / + 10 %)	(EN 1849-2)

TECHNICAL INFORMATION

Resistance to Impact	hard substrate	≥ 1000 mm	(EN 12691)
	soft substrate	≥ 1250 mm	
Resistance to Static Load	soft substrate	≥ 20 kg	(EN 12730)
	rigid substrate	≥ 20 kg	
Resistance to Root Penetration	Pass		(EN 13948)
Tensile Strength	longitudinal (md) ¹⁾	≥ 9.5 N/mm ²	(EN 12311-2)
	transversal (cmd) ²⁾	≥ 8.5 N/mm ²	
		1) md = machine direction 2) cmd = cross machine direction	
Elongation	longitudinal (md) ¹⁾	≥ 200 %	(EN 12311-2)
	transversal (cmd) ²⁾	≥ 200 %	
		1) md = machine direction 2) cmd = cross machine direction	
Dimensional Stability	longitudinal (md) ¹⁾	≤ 0.3 %	(EN 1107-2)
	transversal (cmd) ²⁾	≤ 0.3 %	
		1) md = machine direction 2) cmd = cross machine direction	
Joint Shear Resistance	≥ 500 N/50 mm		(EN 12317-2)
Foldability at Low Temperature	≤ -25 °C		(EN 495-5)
Reaction to Fire	Class E	(EN ISO 11925-2, classification to EN 13501-1)	
Effect of Liquid Chemicals, Including Water	On request		(EN 1847)

Resistance to UV Exposure	Not applicable for permanent exposure to UV irradiation.	
Water Vapour Transmission	$\mu = 20\ 000$	(EN 1931)
Watertightness	Pass	(EN 1928)

SYSTEMS

System Structure	<p>The following accessories shall be used:</p> <ul style="list-style-type: none"> ▪ Sikaplan® D-18 unreinforced sheet for detailing ▪ Sikaplan® SG-18 or Sikaplan® G-18 roofing sheet for exposed connections and flashings ▪ Sika-Trocal® Metal Sheet Type S ▪ Sika-Trocal® Cleaner-2000 ▪ Sika-Trocal® Cleaner L-100 ▪ Sika-Trocal® C-733 (Contact adhesive) <p>Wide range of accessories is available e.g. prefabricated parts, roof drains, scuppers, overflows, protection sheets and separation layers.</p>
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.

APPLICATION INFORMATION

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

SUBSTRATE QUALITY

The substrate surface must be uniform, smooth and free of any sharp protrusions or burrs, etc. Sikaplan® SGmA-24 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 keep membrane in place. The roof waterproofing membrane is installed by loose laying and covered with ballast according to local wind load situation.

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, for manual welding
- Sarnamatic®, 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.

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.

IMPORTANT CONSIDERATIONS

Geographical / Climate

The use of Sikaplan® SGmA-24 membranes is limited to geographical locations with average monthly minimum temperatures of -25 °C.

Permanent ambient temperature during use is limited to +50 °C.

BASIS OF PRODUCT DATA

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

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 this 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)

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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