

PRODUCT DATA SHEET

Sikaplan® VG-12

1.2 mm thick polymeric PVC membrane for mechanically-fastened roof waterproofing

DESCRIPTION

Sikaplan® VG-12 (thickness 1.2 mm) is a multi-layer synthetic waterproofing membrane designed for roofing applications. Manufactured from polyvinyl chloride (PVC), it incorporates an internal polyester reinforcement, in compliance with EN 13956 standards. The product is hot-air-weldable, formulated for UV exposure and independently assessed for enhanced external fire performance. Can be applied in all climatic zones.

USES

Sikaplan® VG-12 is used as a waterproofing membrane in the following roofing applications:

- Mechanically-fastened roofing systems

FEATURES

- Highly flexible membrane allows for easy application
- Fulfils higher fire resistance requirements
- Hot-air welding application avoids fire risk
- Increased resistance to damage through wind uplift

SUSTAINABILITY

- LEED v2009 MRc 4 Sikaplan® VG
- Contributes towards satisfying Materials and Resources (MR) Credit: Building Product Disclosure and Optimization — Sourcing of Raw Materials under LEED® v4 — 1 point
- Specific Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)

CERTIFICATES AND TEST REPORTS

- CE marking and declaration of performance based on EN 13956:2012 Flexible sheets for waterproofing — Plastic and rubber sheets for roof waterproofing — Definitions and characteristics
- CR Reaction to fire EN 13501-1, Sikaplan® VG-12 (CH_CE), MPA Stuttgart, No. 903 5621 000-8

PRODUCT INFORMATION

Composition	Polyvinyl chloride (PVC-p)	
Packaging	Roll width	1.00 m, 1.54 m, 2.00 m
	Roll length	20 m
	Roll weight	33 kg, 51 kg, 66 kg
	Please contact our customer service, for information of what packaging sizes are sold in Denmark.	
Colour	Top layer colour	light grey (~RAL 7047), lead grey (~RAL 7012)
	Bottom layer colour	dark grey
Shelf life	5 years from date of production	
Storage conditions	The Product must be stored in original unopened and undamaged sealed	

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packaging in dry conditions and temperatures between -5 °C and +40 °C. Store in a horizontal position. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage. Always refer to the packaging.

Product declaration	EN 13956 - Polymeric sheets for roof waterproofing	
Visible defects	Pass	(EN 1850-2)
Length	20 m (+1 m / -0 m)	(EN 1848-2)
Width	2 m (+0.02 m / -0.01 m)	(EN 1848-2)
Effective thickness	1.2 mm (+0.12 mm / -0.06 mm)	(EN 1849-2)
Straightness	≤ 30 mm	(EN 1848-2)
Flatness	≤ 10 mm	(EN 1848-2)
Mass per area	1.65 kg/ m ² (+0.17 kg/m ² / - 0.08 kg/ m ²)	(EN 1849-2)
Appearance	matt	

TECHNICAL INFORMATION

Resistance to impact	Method A, Hard support	≥ 400 mm	(EN 12691)
	Method B, Soft support	≥ 700 mm	
Hail resistance	Hard support	≥ 17 m/s	(EN 13583)
	Soft support	≥ 20 m/s	
Dimensional stability	Longitudinal (MD), aged 6 hours at +80 °C	≤ 0.5 %	(EN 1107-2)
	Transversal (CMD), aged 6 hours at +80 °C	≤ 0.5 %	
Resistance to tear	Longitudinal (MD)	≥ 210 N	(EN 12310-2)
	Transversal (CMD)	≥ 210 N	
Joint peel resistance	≥ 300 N/50 mm Failure mode C, no failure of the joint		(EN 12316-2)
Joint shear resistance	≥ 600 N/50 mm		(EN 12317-2)
Foldability at low temperature	≤ -30 ° C		(EN 495-5)
External fire performance	B _{Roof} T1, slope ≥ 20°	Pass	(EN 13501-5)
	B _{Roof} T1, slope < 20°	Pass	
	B _{Roof} T2	Pass	
Reaction to fire	Class E		(EN 13501-1)
Chemical resistance	Resistant to specific chemicals. Contact Sika Technical Services for additional information.		(EN 1847)
Resistance to UV exposure	> 5000 hours UV exposure	Grade 0	(EN 1297)
Diffusion resistance to water vapour	Resistance factor, Method A, tested at +23 °C and 75 % r.h.	μ = 20 000	(EN 1931)
Watertightness	Method B: at 10 kPa	Pass	(EN 1928)

Maximum tensile force	Longitudinal (MD)	≥ 1100 N/50 mm	(EN 12311-2)
	Transversal (CMD)	≥ 1000 N/50 mm	
Elongation at maximum tensile force	Longitudinal (MD)	≥ 15 %	(EN 12311-2)
	Transversal (CMD)	≥ 15 %	

APPLICATION INFORMATION

Ambient air temperature	Maximum	+60°C
	Minimum	-15°C
Substrate temperature	Maximum	+60 °C
	Minimum	-25 °C

SYSTEM INFORMATION

Compatibility	Membrane must be separated from any incompatible substrates / materials by an effective separation layer to prevent accelerated ageing. Not compatible in direct contact with bitumen, tar, fat, oil, solvent containing materials and plastic / thermoplastic materials, e.g. expanded polystyrene (EPS), extruded polystyrene (XPS), polyurethane (PUR), polyisocyanurate (PIR) or phenolic foam (PF). These materials could adversely affect the product properties.
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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.

ECOLOGY, HEALTH AND SAFETY

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)

APPLICATION INSTRUCTIONS

EQUIPMENT

HOT-WELDING OVERLAP SEAMS

- Electric hot-air-welding equipment such as hand-held, manual hot-air-welding equipment and pressure rollers.
- Automatic hot-air-welding machines with controlled hot-air temperature capability of a minimum +600 °C.

Recommended equipment:

Manual Leister Triac
Automatic Varimat

SUBSTRATE PREPARATION

The substrate surface must be smooth and uniform. The supporting layer must be compatible with the membrane, resistant to solvents and dry.

1. Remove any sharp protrusions or burrs from the substrate.
2. If contaminants such as grease or dust are present, clean the supporting layer.

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BUILDING TRUST



APPLICATION

IMPORTANT

Strictly follow installation procedures

Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

IMPORTANT

Application by trained personnel

The application of this Product must only be carried out by an applicator that is trained or approved by Sika. The applicator must also be experienced in this type of application.

FIXING METHOD - GENERAL

The waterproofing membrane is installed by loose laying – without stretching the membrane or installing under tension – with mechanical fastening in the seam overlaps or independently of overlaps. Overlap seams are hot-air-welded using specialised hot-air equipment.

FIXING METHOD - SPOT FASTENING (SARNAFAST®)

1. Install the Product at right angles to the deck direction. Unroll the waterproofing membrane, overlapping it by 120 mm.
2. Fix the waterproofing membrane using Sarnafast® fasteners, barbed washers and tubes along the marked line, 35 mm from the edge of the membrane. The spacing of the fasteners must be in accordance with the project specific Sika calculations.
3. At upstands and at all penetrations, secure the Product with a Sarnabar®.
4. Use the 4 mm diameter SikaRoof® Welding Cord PVC to protect the roof covering against tearing and peeling off by wind uplift.

FIXING METHOD - FIELD FASTENING

1. Install the membrane at right angles to the deck direction. Unroll the waterproofing membrane, overlapping it by 80 mm..
2. Fix the membrane by induction-welding Sarnadisc hot-melt-coated washers and Sarnafast® fasteners along the marked line, 35 mm from the edge of the membrane. The spacing of the fasteners must be in accordance with the project specific Sika calculations.
3. At upstands and at all penetrations, secure the Product with a Sarnabar®.
4. Use the 4 mm diameter SikaRoof® Welding Cord PVC to protect the roof covering against tearing and peeling off by wind uplift.

HOT-WELDING OVERLAP SEAMS

Overlap seams must be welded by electric hot-welding equipment. Prior to 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 conditions. The effective width of overlaps welded by hot air must be a minimum of 20 mm.

TESTING OVERLAP SEAMS

1. Mechanically test seams with a rounded-edge screwdriver to ensure the integrity and completion of the weld.
2. Rectify any imperfections using hot-air-welding.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

Sika Danmark A/S

Hirsemarken 5
3520 Farum
Tlf. +45 48 18 85 85
www.sika.dk



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