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PRODUCT DATA SHEET Sikaplan[®] VGT-15

Polymeric PVC membrane for mechanically fastened roof waterproofing

DESCRIPTION

Sikaplan[®] VGT-15 (thickness ~1,5 mm) is a polyester reinforced, multi-layer, synthetic roof waterproofing sheet based on polyvinyl chloride (PVC) with fire retardant according to EN 13956.

USES

Sikaplan[®] VGT-15 may only be used by experienced professionals.

Waterproofing membrane for exposed flat roofs with enhanced fire resistance for:

Mechanically fastened roofing systems

CHARACTERISTICS / ADVANTAGES

- Resistant to permanent UV exposure
- Resistant to permanent wind exposure
- High water vapour permeability
- Resistant to most common environmental influences
- Hot air weldable
- No open flame equipment required
- Textured surface for improved slip resistance

SUSTAINABILITY

- Conformity with LEED v4 MRc 3 (Option 2): Building Product Disclosure and Optimization - Sourcing of Raw Materials
- Conformity with LEED v4 MRc 4 (Option 2): Building Product Disclosure and Optimization - Material Ingredients
- Conformity with LEED v2009 MRc 4 (Option 2): Recycled Content

APPROVALS / CERTIFICATES

• CE Marking and Declaration of Performance to EN 13956 - Polymeric sheets for roof waterproofing

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PRODUCT INFORMATION

Product declaration	oofing			
Packaging	Packing unit	Packing unit		
	Roll length	20,00 m	20,00 m	
	Roll width	<u>1,00 m</u>	<u>2,00 m</u>	
	Roll weight	36,65 kg	73,20 kg	
	Refer to current price list for packaging variations.			
Shelf life	5 years from date of	5 years from date of production		
Storage conditions	Product must be stored in original unopened and undamaged sealed pack- aging in dry conditions and temperatures between +5 °C and +30 °C. Store in a horizontal position. Do not stack pallets of the rolls on top of each oth- er, or under pallets of any other materials during transport or storage. Al- ways refer to packaging.			
Appearance and colour	Surface:	texture	d	
	Colours			
	Top surface:	lead gro		
	Bottom surface:	dark gr	еу	
	Top surface of sheet, other colours on request, subject to minimum order quantities.			
Visible defects	Pass		(EN 1850-2)	
Length	20,00 m (-0 % / +5 %	20,00 m (-0 % / +5 %)		
Width	1,00 / 2,00 m (-0,5 %	1,00 / 2,00 m (-0,5 % / +1 %)		
Effective thickness	1.5 mm (-5 % / +10 %	1.5 mm (-5 % / +10 %)		
Straightness	≤ 30 mm	≤ 30 mm		
Flatness	≤ 10 mm	≤ 10 mm		
Mass per area	1,83 kg/m² (-5 % / +	1,83 kg/m² (-5 % / +10 %) (EN		
TECHNICAL INFORMAT	ION			
Resistance to impact	hard substrate	≥ 400 mm	(EN 12691)	
	soft substrate	≥ 700 mm		
Hail resistance	rigid substrate	≥ 21 m/s	(EN 13583)	
	flexible substrate	≥ 26 m/s		
Tensile strength	longitudinal (md) ¹⁾	≥ 1000 N/50mm	(EN 12311-2)	
	transversal (cmd) ²⁾	≥ 900 N/50mm		
	¹⁾ md = machine direction ²⁾ cmd = cross machine direction			
Elongation	longitudinal (md) ¹⁾	≥ 15 %	(EN 12311-2)	
	transversal (cmd) ²⁾	<u>≥ 15 %</u>	(/	
	¹⁾ md = machine direct ²⁾ cmd = cross machine	ion		
Tear strength	longitudinal (md) ¹⁾	≥ 150 N	(EN 12310-2)	
	transversal (cmd) ²⁾	≥ 150 N	(

¹⁾ md = machine direction $^{2)}$ cmd = cross machine direction

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Joint peel resistance	Failure mode: C, no failure of the joint	(EN 12316-2)	
Joint shear resistance	≥ 600 N/50 mm	(EN 12317-2)	
Dimensional stability	longitudinal (md) ¹⁾ \leq 0,5 % transversal (cmd) ²⁾ \leq 0,5 %	(EN 1107-2)	
	¹⁾ md = machine direction ²⁾ cmd = cross machine direction		
Foldability at low temperature	≤ -25 °C	(EN 495-5)	
Watertightness	Pass	(EN 1928)	
Water-vapour transmission rate	μ = 20 000	(EN 1931)	
Effect of liquid chemicals, including wa- ter	On request	(EN 1847)	
Resistance to UV exposure	Pass (> 5 000 h / grade 0)	(EN 1297)	
External fire performance	B _{ROOF} (t2)	(EN 13501-5)	
SYSTEM INFORMATION			
System structure	 The following products must be considered for use depending on roof design: Sikaplan® D-18, 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® C 733 (contact adhesive). 		
Compatibility	Not compatible in direct contact with bitumen, tar, fat, oil, solvent con- taining materials and other plastic materials, e.g. expanded polystyrene (EPS), extruded polystyrene (XPS), polyurethane (PUR), polyisocyanurate (PIR) or phenolic foam (PF). These materials could adversely affect the		

APPLICATION INFORMATION

Ambient air temperature	-15 °C min. / +60 °C max.	
Substrate temperature	-25 °C min. / +60 °C max.	

product properties.

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.

FURTHER INFORMATION

Installation instructions

Sikaplan[®]-G-type system for mechanically fastened roofing systems

IMPORTANT CONSIDERATIONS

Installation work must only be carried out by Sika[®] trained and approved contractors, experienced in this type of application.

 Ensure Sikaplan[®] VGT-15 is prevented from direct contact with incompatible materials (refer to com-

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- The use of Sikaplan[®] VGT-15 membrane is limited to geographical locations with average monthly minimum temperatures of -25 °C. Permanent ambient temperature during use is limited to +50°C.
- The use of some ancillary products such as adhesives, cleaners and solvents is limited to temperatures above +5 °C. Observe temperature limitations in the appropriate Product Data Sheets.
- Special measures may be compulsory for installation below +5°C ambient temperature due to safety requirements in accordance with national regulations.



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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)

APPLICATION INSTRUCTIONS

EQUIPMENT

Hot welding overlap seams

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

Recommended type of equipment:

- Manual: Leister Triac
- Automatic : Sarnamatic 681
- Semi-automatic: Leister Triac Drive

SUBSTRATE QUALITY

The substrate surface must be uniform, smooth and free of any sharp protrusions or burrs, etc. Sikaplan® VGT-15 must be separated from any incompatible substrates / materials by an effective separation layer to prevent accelerated ageing.

APPLICATION

Installation procedure

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

Fixing method - General

The waterproofing membrane is installed by loose laying with mechanical fastening in seam overlaps or independent from overlaps with the Sika-Trocal[®] disc system. Overlap seams are hot welded using specialised hot air equipment.

Hot welding method

Overlap seams must be welded by electric hot welding equipment. 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 prior to welding. The effective width of welded overlaps must be a minimum of 20 mm. **Testing overlap seams**

The seams must be mechanically tested with a screwdriver or steel needle to ensure the integrity/completion of the weld. Any imperfections must be rectified by hot air welding or cold welding if temperature conditions are satisfied.

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 guestion. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in guestion 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.

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SikaplanVGT-15-en-DK-(07-2022)-1-1.pdf



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