

PRODUCT DATA SHEET

Sikaplan® D-18

PVC Detailing sheet for Sikaplan® G,SGK and SGmA roof waterproofing membranes

DESCRIPTION

Sikaplan® D-18 (thickness 1,8 mm) is a polyvinyl chloride (PVC), unreinforced, multi-layer, synthetic roof waterproofing detailing sheet.

USES

- Detailing sheet for Sikaplan® G,SGK and SGmA roof waterproofing membranes

CHARACTERISTICS / ADVANTAGES

- Resistant to UV exposure
- Resistant to most common environmental influences
- Hot air weldable
- No open flame equipment required
- Good resistance to mechanical influences
- Excellent flexibility in cold temperatures

PRODUCT INFORMATION

Packaging	Packing Unit	Refer to price list
	Roll length	20,00 m
	Roll width	1,75 m
	Roll weight	81,9 kg
Shelf life	if stored properly the product keeps its features	
Storage conditions	Store Product in original unopened and undamaged sealed packaging under dry conditions and temperatures between +5 °C and +30 °C. Store in a horizontal position. Do not stack pallets on top of each other, or under pallets of any other materials during transport or storage. Always refer to packaging.	
Appearance and colour	Surface	smooth
	Colour	
	Top surface	light grey (~RAL 7047) lead grey (~RAL 7011)
	Bottom surface	light grey (~RAL 7047) lead grey (~RAL 7011)
Visible defects	Pass	
Length	20,00 m (-0 % / +5 %)	(EN 1848-2)
Width	1,75 m (-0,5 % / +1 %)	(EN 1848-2)
Effective thickness	1,8 mm (-5 % / +10 %)	(EN 1849-2)
Mass per area	2,2 kg/m ² (-5 % / +10 %)	(EN 1849-2)

SYSTEM INFORMATION

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.	
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TECHNICAL INFORMATION

Foldability at low temperature	≤ -25 °C	(EN 495-5)
Watertightness	Pass	(EN 1928)
Water-vapour transmission rate	μ = 20 000	(EN 1931)
Resistance to UV exposure	Pass (> 5 000 h / grade 0)	(EN 1297)
Reaction to fire	Class E	(EN ISO 11925-2, classification to EN 13501-1)

APPLICATION INFORMATION

Ambient air temperature	-20 °C min. / +60 °C max.
Substrate temperature	-30 °C min. / +60 °C max.

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.

FURTHER INFORMATION

- Installation instructions: Sikaplan® G-types for mechanical fastened system
- Installation instructions: Sikaplan® SGK-types for partially adhered system
- Installation instructions: Sikaplan® SGmA-types for ballasted system

IMPORTANT CONSIDERATIONS

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

- The use of Sikaplan® D-18 membranes is limited to geographical locations with average monthly minimum temperatures of -30 °C. Permanent ambient temperature during use is limited to +50 °C.
- The use of some ancillary products such as adhesives, cleaners and solvents are 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.

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

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

SUBSTRATE QUALITY

- The supporting structure must be of sufficient structural strength to apply all new and existing layers of the roof build-up. Complete roof system must be designed and secured against wind uplift loadings.
- The substrate surface must be uniform, smooth and free of any sharp protrusions or burrs, etc.
- Sikaplan® D-18 must be separated from any incompatible substrates / materials by an effective separation layer to prevent accelerated ageing.
- The supporting layer must be compatible to the membrane, solvent resistant, clean, dry and free of grease and dust.
- Metal sheets must be degreased with Sarna Cleaner before adhesive is applied.

Sika Deutschland GmbH

Roofing
Kornwestheimer Strasse 103-107
70439 Stuttgart
Tel.: +49 711/8009-0
roofing@de.sika.com
www.sika.de/dachabdichtung



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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

The detailing membrane is welded to the installed PVC roof waterproofing membrane.

Hot welding method

Overlap seams between the detailing membrane and waterproofing membrane 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 before welding. The effective width of welded overlaps by hot air must be minimum 20 mm.

Testing overlap seams

The seams must be mechanically tested with a screwdriver (rounded edges) to ensure the integrity/completion of the weld. Any imperfections must be rectified by hot air welding.

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 the 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.

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