

PRODUCT DATA SHEET

Sikaplan® D-18

PVC Detailing sheet for Sikaplan® G, Sikaplan® SGK and Sikaplan® 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, Sikaplan® SGK and Sikaplan® 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
- Recyclable (Delete if recycling facilities or recycling offerings for roofing membranes are not available in local country)

PRODUCT INFORMATION

Packaging	Packing Unit	
	Roll length	20,00 m
	Roll width	1,75 m
	Roll weight	81,90 kg
Appearance / Colour	Surface	smooth
	Colour	
	Top surface	light grey (~RAL 7047) lead grey (~RAL 7011) slate grey (~RAL 7015)
	Bottom surface	light grey (~RAL 7047) lead grey (~RAL 7011) slate grey (~RAL 7015)
Shelf life	5 years from date of production	
Storage conditions	Product must be stored in original unopened and undamaged sealed packaging 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 other, or under pallets of any other materials during transport or storage. Always refer to packaging.	
Visible defects	Pass	
Length	20,00 m (-0 % / +5 %)	(EN 1848-2)

Width	1,75 m (-0,5 % / +1 %)	(EN 1848-2)
Effective thickness	1,80 mm (-5 % / +10 %)	(EN 1849-2)
Mass per area	2,20 kg/m ² (-5 % / +10 %)	(EN 1849-2)

TECHNICAL INFORMATION

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

SYSTEM INFORMATION

System structure	The following products must be considered for use depending on roof design: <ul style="list-style-type: none"> ▪ Sikaplan® Metal Sheet Type S ▪ Sika-Trocal® Cleaner 2000 ▪ Sika-Trocal® Cleaner L 100 ▪ Sika-Trocal® C 733 (Contact adhesive) Please contact Sales regarding availability
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	-20 °C min. / +60 °C max.
Substrate temperature	-30 °C min. / +60 °C max.

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-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 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)

PRODUCT DATA SHEET

Sikaplan® D-18
July 2021, Version 02.01
020905111050181001

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.

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.

Reference must be made to the following Installation instructions:

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

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.

Sika Danmark A/S

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



PRODUCT DATA SHEET

Sikaplan® D-18
July 2021, Version 02.01
020905111050181001

Testing overlap seams

The seams must be mechanically tested with a screw-driver (rounded edges) to ensure the integrity/completion of the weld. Any imperfections must be rectified by 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.

SikaplanD-18-en-DK-(07-2021)-2-1.pdf