

## Sikaplan®-18 D

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

<b>Product Description</b>	Sikaplan®-18 D (thickness 1.8 mm) is an unreinforced, multi-layer, synthetic roof waterproofing sheet based on premium-quality polyvinyl chloride (PVC).
<b>Uses</b>	Detailing sheet for roof waterproofing membranes based on Sikaplan® G, Sikaplan® SGK and Sikaplan® SGmA: <ul style="list-style-type: none"><li>■ Welded to the installed Sikaplan PVC roof waterproofing membrane</li></ul>
<b>Characteristics / Advantages</b>	<ul style="list-style-type: none"><li>■ Outstanding resistance to weathering, including permanent UV irradiation</li><li>■ High resistance to ageing</li><li>■ High resistance to hailstones</li><li>■ Resistant to all common environmental influences</li><li>■ High resistance to mechanical influences</li><li>■ Excellent flexibility in cold temperatures</li><li>■ High water vapour permeability</li><li>■ Outstanding weldability</li><li>■ Recyclable</li></ul>
<b>Approval / Standards</b>	<ul style="list-style-type: none"><li>■ Reaction to fire according to EN 13 501-1</li><li>■ Quality Management system in accordance with EN ISO 9001/14001</li></ul>
<b>Appearance / Colours</b>	Surface: smooth Colour: Top surface: light grey (nearest RAL 7047) slate grey (nearest RAL 7015) Bottom surface: light grey (nearest RAL 7047) slate grey (nearest RAL 7015)
<b>Packaging</b>	Packing Unit: see price list Roll length: 20.00 m Roll width: 1.75 m Roll weight: 81.90 kg
<b>Storage Conditions / Shelf-Life</b>	Rolls must be stored in a horizontal position and protected from direct sunlight, rain and snow. Product does not expire during correct storage. Do not stack pallets of rolls during transport or storage.



## Technical Data

<b>Visible defects</b>	Pass	EN 1850-2
<b>Length</b>	20.00m (- 0 % / + 5 %)	EN 1848-2
<b>Width</b>	1.75 m (- 0.5 % / + 1 %)	EN 1848-2
<b>Effective thickness</b>	1.8 mm (- 5 % / + 10 %)	EN 1849-2
<b>Mass per unit area</b>	2.2 kg/m <sup>2</sup> (- 5 % / + 10 %)	EN 1849-2
<b>Water tightness</b>	Pass	EN 1928
<b>Reaction to fire</b>	Class E	EN ISO 11925-2, classification to EN 13501-1
<b>Water vapour transmission properties</b>	$\mu = 20'000$	EN 1931
<b>Foldability at low temperature</b>	$\leq -25\text{ }^{\circ}\text{C}$	EN 495-5
<b>UV exposure</b>	Pass (> 5'000 h / grade 0)	EN 1297

## System Information

<b>System Structure</b>	Ancillary products according to local price list: <ul style="list-style-type: none"><li>• Moulded corner pieces, prefabricated corners and pipe flashings</li><li>• Sika-Trocal<sup>®</sup> Metal Sheet Type S</li><li>• Sika-Trocal<sup>®</sup> Cleaner 2000</li><li>• Sika-Trocal<sup>®</sup> Cleaner L 100</li><li>• Sika-Trocal<sup>®</sup> C 733 (Contact adhesive)</li></ul>
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## Application Details

<b>Substrate Quality</b>	The installed membrane based on PVC must be clean, dry and free from any pollution of dust, oil, grease or adhesives.
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## Application Conditions / Limits

<b>Temperature</b>	The use of Sikaplan <sup>®</sup> -18 D membranes is limited to geographical locations with average monthly minimum temperatures of -30 °C. Permanent ambient temperature during use is limited to +50 °C.
<b>Compatibility</b>	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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## Installation Instructions

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### Installation Method / Tools

Installation procedure:  
According to the valid installation instructions of manufacturer for Sikaplan® G-types for mechanical fastened system, Sikaplan® SGK-types for partially adhered system and Sikaplan® SGmA-types for ballasted system.

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

Welding Method:  
Overlap seams are welded by electric heat welding equipment, such as manual hot air welding machines and pressure roller with controlled hot air temperature capability of minimum 600 °C.

Recommended type of equipment: Leister Triac PID for manual 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. The effective width of welded overlap must be minimum 20 mm.

The seams must be mechanically tested with steel needles to ensure the integrity/completion of the weld. Any imperfections must be rectified by hot air welding.

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### Notes on Installation / Limits

Installation works must be carried out only by Sika instructed contractors for roofing.

Temperature limits for the installation of the membrane:

Substrate temperature: -30 °C min. / +60 °C max.

Ambient temperature: -20 °C min. / +60 °C max.

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.

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<b>Value Base</b>	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.
<b>Local Restrictions</b>	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.
<b>Ecology, Health and Safety Information</b>	A Safety Data Sheet following EC-Regulation 1907/2006, Article 31 is not needed to bring the product to the market, to transport or to use it. The product does not damage the environment when used as specified.
<b>REACH</b>	<p><b>European Community Regulation on chemicals and their safe use (REACH: EC 1907/2006)</b></p> <p>This product is an article within the meaning 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. Therefore, there are no registration requirements for substances in articles within the meaning of Article 7.1 of the Regulation.</p> <p>Based on our current knowledge, this product does not contain SVHC (substances of very high concern) from the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w).</p>
<b>Protective Measures</b>	Fresh air ventilation must be ensured, when working (welding) in closed rooms. Local safety regulations must be observed.
<b>Transportation Class</b>	The product is not classified as hazardous good for transport.
<b>Disposal</b>	The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

**Legal note:** 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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