

PRODUCT DATA SHEET

Sikaplan® WP 5110-10 H

PVC sheet waterproofing membrane for pits and ponds

DESCRIPTION

Sikaplan® WP 5110-10 H is a 1 mm thick homogeneous sheet waterproofing membrane, based on flexible polyvinylchloride (PVC-P).

USES

Waterproofing membrane for:

- Ponds and biotopes
- Natural pools
- Water basins
- Artificial lakes and canals

This product is primarily suitable for prefabrication of waterproofing membranes for the applications mentioned above. This product is not suitable for continuous contact with water temperatures above +30 °C or with contaminated water and wastewater.

FEATURES

- Proven product for decades
- UV-stabilized
- High resistance to aging
- Flexible in cold temperatures
- Without DEHP (DOP) plasticizers
- Can be laid on damp surfaces

CERTIFICATES AND TEST REPORTS

- CE Marking and Declaration of Performance to EN 13361 - Geosynthetic barriers - Characteristics required for use in the construction of reservoirs and dams
- CE Marking and Declaration of Performance to EN 13967 - Flexible sheets for waterproofing - Damp proofing and basement tanking
- KIWA approval, No. K12207/02 for contact with drinking water

PRODUCT INFORMATION

Composition	PVC-P	
Packaging	Roll width 2,02 m	Roll length 400 m
Appearance and colour	Surface texture Colour	smooth black
Note: The membrane colour might change under the influence of UV-light around and above area of permanent water surface level if not properly covered with soil material.		
Shelf life	The product retains its properties when stored properly and in accordance with the specifications.	

Storage conditions The product must be stored in original unopened and undamaged sealed packaging in dry conditions and temperatures between +5 °C and +35 °C. Protect the product from direct weather exposure. 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.

Effective thickness	1 mm (-0,05 mm / +0,1 mm)	(EN 1849-2)
Max. operating pressure	1,3 kg/m ² (-0,06 kg/m ² / +0,13 kg/m ²)	(EN 1849-2)

TECHNICAL INFORMATION

Resistance to root penetration	pass	(CEN/TS 14416)
Tensile strength	<u>Longitudinal (MD)</u> $\geq 18 \text{ N/mm}^2$ <u>Transversal (CMD)</u> $\geq 18 \text{ N/mm}^2$	(EN ISO 527-3)
	<u>Longitudinal (MD)</u> $\geq 18 \text{ N/mm}^2$ <u>Transversal (CMD)</u> $\geq 18 \text{ N/mm}^2$	(EN 12311-2)
Tensile strain at break	<u>Longitudinal (MD)</u> $> 300 \%$ <u>Transversal (CMD)</u> $> 300 \%$	(EN ISO 527-3)
Foldability at low temperature	No cracks at -20 °C	(EN 495-5)
Resistance to oxidation	<u>Change in tensile strength, aged 120 days at +80 °C</u> $< 15 \%$ <u>Change in elongation, aged 120 days at +80 °C</u> $< 15 \%$	(EN 14575)
Microbiological resistance	<u>Change in tensile strength, aged 16 weeks</u> $< 25 \%$ (MD/CMD) <u>Change in elongation, aged 16 weeks</u> $< 25 \%$ (MD/CMD)	(EN 12225)

SYSTEM INFORMATION

System structure	Ancillary products: <ul style="list-style-type: none"> ▪ Sikaplan® Geotextiles ▪ Sikaplan® W Flat Profile Stainless Steel (V4A) ▪ Sikaplan® WP Metal Sheet ▪ SikaBond® T-1 Purform
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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.

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).

ECOLOGY, HEALTH AND SAFETY

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

APPLICATION INSTRUCTIONS

Important:

Follow the installation instructions defined in the processing guidelines and system manuals. Work instructions must always be adapted to the actual site conditions.

Welding parameters must be set for each specific object before welding work begins and checked on samples.

SUBSTRATE QUALITY

For information on substrate preparation contact Sika Technical Services.

Suitable substrates

- Concrete
- Mortar
- Galvanised steel
- Aluminium
- Plasticised PVC
- Compacted soil (sand, clay)

Non-suitable substrates

- Impregnated wood
- Any plastics other than plasticised PVC

APPLICATION METHOD / TOOLS

IMPORTANT

The product is suitable for factory welding only (i.e. heat welding with wedge, high frequency, cold welding with solvent) to create waterproof prefabricated components.

Solvent welding procedures are limited to ambient temperatures above +10 °C and relative air humidity below 80 %. For information on application contact Sika Technical Services.

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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SikaplanWP5110-10H-en-DE-(02-2026)-2-1.pdf

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February 2026, Version 02.01

020720101500000004