

## PRODUCT DATA SHEET

# Sikaplan® WP 5130-15 R

1.5 mm thick reinforced PVC sheet waterproofing membrane for pits and ponds

## DESCRIPTION

Sikaplan® WP 5130-15 R is a flexible, 1.5 mm thick, sheet waterproofing membrane. It is based on premium-quality polyvinylchloride (PVC-p) reinforced with woven fabric

## USES

The Product is designed for:

- Lining of irrigation ponds
- Lining of leisure ponds and biotopes
- Lining of artificial lakes and canals

Please note:

- The Product is not suitable for potable water storage.
- The Product is not suitable for permanent exposure to liquids with temperatures above +35 °C.
- The Product is not suitable for exposure to polluted or waste waters.

## FEATURES

- Proven performance over decades
- High UV stability
- High resistance to ageing
- Good resistance to root penetration
- Good resistance to microbial degradation
- Contains no DEHP (DOP) plasticisers
- Flexible in cold temperatures
- Can be installed on wet substrates and on compacted soil

## 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

## PRODUCT INFORMATION

Composition	PVC-p	
Packaging	Roll width	2 m
	Roll length	200 m
Appearance and colour	Surface texture	smooth
	Colour	olive-green / grey
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	5 years from date of production	
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	1.50 mm (- 0.07 mm / + 0.15 mm)	(EN 1849-2)
Mass per area	1.90 kg/m <sup>2</sup> (- 0.09 kg/m <sup>2</sup> / + 0.19 kg/m <sup>2</sup> )	(EN 1849-2)

## TECHNICAL INFORMATION

Resistance to static puncture	> 2.7 kN		(EN ISO 12236)
Resistance to root penetration	pass		(CEN/TS 14416)
Tensile strength	Longitudinal (MD)	1300 N / 50 mm ± 130 N / 50 mm	(EN ISO 527-3)
	Transversal (CMD)	1200 N / 50 mm ± 120 N / 50 mm	
	Longitudinal (MD)	1300 N / 50 mm ± 130 N / 50 mm	(EN 12311-2)
	Transversal (CMD)	1200 N / 50 mm ± 120 N / 50 mm	
Tensile strain at break	Longitudinal (MD)	> 15 %	(EN ISO 527-3)
	Transversal (CMD)	> 15 %	
Joint shear resistance	> 1000 N / 50 mm		(EN 12317-2)
Foldability at low temperature	No cracks at -20 °C		(EN 495-5)
Coefficient of thermal expansion	150 × 10 <sup>-6</sup> K <sup>-1</sup> ± 50 × 10 <sup>-6</sup> K <sup>-1</sup>		(ASTM D696)
Behaviour after storage in warm water	Change in tensile strength, aged 56 days at +50 °C	< 15 %	(EN 14415)
	Change in elongation, aged 56 days at +50 °C	< 15 %	
Resistance to oxidation	Change in tensile strength, aged 90 days at +85 °C	< 10 %	(EN 14575)
	Change in elongation, aged 90 days at +85 °C	< 10 %	

## SYSTEM INFORMATION

### System structure

#### Ancillary Products:

- Sikaplan® Geotextiles
- Sikaplan® W Flat Profile Stainless Steel
- Sikaplan® WP Fixation Plate PVC
- Sikaplan® WP Metal Sheet

## 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.

## 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 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

### IMPORTANT

#### Strictly follow installation procedures

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

### APPLICATION METHOD / TOOLS

### IMPORTANT

#### Application by trained personnel

The application of this Product must only be carried out by Sika® trained and/or approved contractors, experienced in this type of application.

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### IMPORTANT

#### Not resistant to bitumen and plastics

The Product is not resistant to permanent contact with bitumen and some types of plastics other than PVC.

1. For use over or adjacent to these materials, apply a separation layer of polypropylene geotextile ( $\geq 300$  g/m<sup>2</sup>).

For information on substrate preparation and application, contact Sika Technical Services

## LOCAL RESTRICTIONS

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.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.