

PRODUCT DATA SHEET

Sikaplan® WP 3100-15 R

1.5 mm thick reinforced PVC sheet waterproofing membrane for swimming pools

DESCRIPTION

Sikaplan® WP 3100-15 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

Sikaplan® WP 3100-15 R is used for:

- Lining of indoor swimming pools
- Lining of outdoor swimming pools

Please note:

- The Product is not suitable for permanent exposure to liquids with temperatures above +32 °C.
- The Product is not suitable for exposure to thermal and hot spring waters.
- The Product is not suitable for pools with artificial wave machines.
- The lightly coloured Products are only suitable for zero edge pools.

FEATURES

- Proven performance over decades
- Easy to clean and low maintenance
- Very good workability
- High UV stability
- Good resistance to ageing
- Good resistance to chlorinated water and common swimming pool cleaning chemicals
- Flexible in cold temperatures
- Contains no DEHP (DOP) plasticisers

CERTIFICATES AND TEST REPORTS

- CE marking and declaration of performance based on EN 13361:2004/A1:2006 Geosynthetic barriers — Characteristics required for use in the construction of reservoirs and dams
- CE marking and declaration of performance based on EN 13967:2012 Flexible sheets for waterproofing — Plastic and rubber damp proof sheets including plastic and rubber basement tanking sheet — Definitions and characteristics

PRODUCT INFORMATION

Composition	PVC-p	
Packaging	Roll width	1.65 m or 2.05 m
	Roll length	25 m
Rolls are wrapped in PE film. Refer to the current price list for available packaging variations.		
Colour	Colour	Several colours available
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 the packaging.	
Effective thickness	1.50 mm (-0.07 mm / +0.15 mm)	(EN 1849-2)
Mass per area	1.80 kg/m ² (-0.09 kg/m ² / +0.18 kg/m ²)	(EN 1849-2)

TECHNICAL INFORMATION

Resistance to impact	Method A, 500 g falling weight	Watertight at 1000 mm drop height	(EN 12691)
Resistance to static loading	No perforation at 20 kg for 24 h		(EN 12730)
Resistance to static puncture	2.7 kN (- 0.2 kN)		(EN ISO 12236)
Tensile strength	Longitudinal (MD)	17.0 N/mm ² (- 1.7 N/mm ²)	(EN ISO 527-3)
	Transversal (CMD)	16.0 N/mm ² (- 1.6 N/mm ²)	
Tensile strain at break	Longitudinal (MD)	> 15 %	(EN ISO 527-3)
	Transversal (CMD)	> 15 %	
Resistance to tear	Longitudinal (MD)	500 N ± 200 N	(EN 12310-1)
	Transversal (CMD)	500 N ± 200 N	
Joint shear resistance	> 1100 N/50mm		(EN 12317-2)
Foldability at low temperature	No cracks at -20 °C		(EN 495-5)
Coefficient of thermal expansion	100 × 10 ⁻⁶ K ⁻¹ ± 50 × 10 ⁻⁶ K ⁻¹		(ASTM D696)
Reaction to fire	Class E		(EN 13501-5)
Behaviour after storage in warm water	Change in tensile strength, aged 56 days at +50 °C	< 20 % (MD/CMD)	(EN 14415)
	Change in elongation, aged 56 days at +50 °C	< 20 % (MD/CMD)	
Microbiological resistance	Change in tensile strength, aged 16 weeks	< 15 % (MD/CMD)	(EN 12225)
	Change in elongation, aged 16 weeks	< 15 % (MD/CMD)	
Watertightness	Method A, 24 hours at 60 kPa	Pass	(EN 1928)
Durability of watertightness against ageing	Aged 12 weeks at +70 °C, tested 24 hours at 60 kPa	Pass	(EN 1928; EN 1296)
Durability of watertightness against chemicals	Calcium hydroxide, aged 28 days at +23 °C, tested 24 hours at 60 kPa	Pass	(EN 1928; EN 1847)
Behaviour after heat welding	Behaviour of weld in shear test	Break occurs outside the seam	(EN 12317-2)
	Peel resistance of welded seam	No failure of the joint	(EN 12316-2)

SYSTEM INFORMATION

System structure

Ancillary products:

Sikaplan® W Felt 300 Biocide
 Sikaplan® WP Fixation Plate PVC
 Sikaplan® WP 3100-15 H, homogeneous membrane for detail works
 Sikaplan® WP 3100-15 RE, membrane with embossed surface
 Sikaplan® WP 3100-14 C black membrane for lane marking
 Sikaplan® WP 3100 Seam Sealant

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.

ECOLOGY, HEALTH AND SAFETY

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

SUBSTRATE QUALITY

For information on substrate quality and pre-treatment, refer to the following Sika® document:

- Sikaplan membrane (PVC) system for lining swimming pools

APPLICATION

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.

IMPORTANT

Application by trained personnel

The application of this Product must only be carried out by an applicator that is trained or approved by Sika. The applicator must also be experienced in this type of application.

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 (≥ 300 g/m²).

IMPORTANT

Ventilation in confined spaces

Always ensure good ventilation when applying the Product in a confined space.

IMPORTANT

Testing the water tightness

After the application, test the structure's water tightness according to the specification requirements. For information on application, refer to the following Sika® document:

- Sikaplan membrane (PVC) system for lining swimming pools

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 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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ISO 9001, 14001, 45001 – SGS:
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- Sika International Chemicals LLC
- Sika Gulf B.S.C. (c)
ISO 9001, 14001 – SGS:
- Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV:
- Sika UAE LLC (Branch)
ISO 9001 – SGS:
- Sika MB LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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