

BUILDING TRUST

PRODUCT DATA SHEET

Sikaplan® WP 1100-15 HL

1.5 mm thick PVC sheet waterproofing membrane for basements and tunnels



DESCRIPTION

Sikaplan® WP 1100-15 HL is a flexible, 1.5 mm thick, homogeneous sheet waterproofing membrane. It contains a signal layer and is based on high-quality polyvinylchloride (PVC-p).

USES

The Product is designed for:

- Waterproofing of basements against water ingress
- Waterproofing of tunnels against water ingress

FEATURES

- Flexible in cold temperatures
- Elastic material behaviour
- Suitable for contact with acidic (soft) water and alkaline environments

- Optimised flexibility, tensile strength and multi-axial elongation
- Optimised workability and thermally weldable
- Part of the complete waterproofing membrane system
- Proven performance over decades
- Contains no recycled materials and no DEHP (DOP) plasticisers

CERTIFICATES AND TEST REPORTS

- CE Marking and Declaration of Performance to EN 13491:2004/A1:2006 - Geosynthetic barriers — Characteristics required for use as a fluid barrier in the construction of tunnels and underground structures
- CE Marking and Declaration of Performance to 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	2.0 m
	Roll length	20 m or specified
	Rolls are wrapped in PE film.	
Appearance and colour	Surface texture	smooth
	Signal layer colour	yellow
	Bottom layer colour	black
Shelf life	5 years from date of production	

Product Data Sheet Sikaplan® WP 1100-15 HL November 2024, Version 04.01 020720101100000001

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 pallet	rect weather exposure. Store is of the rolls on top of each of ls during transport or storage.	her, or under	
Effective thickness	1.50 mm (-0.07 mm / +0.15	mm)	(EN 1849-2)	
Mass per area	1.95 kg/m² (-0.09 kg/m² / +0.19 kg/m²)		(EN 1849-2)	
TECHNICAL INFORMATION				
Tensile strength	Longitudinal (MD) Transversal (CMD)	17 N/mm² ± 2 N/mm² 16 N/mm² ± 2 N/mm²	(EN ISO 527-3 / EN 12311-2)	
Tensile strain at break	At break, longitudinal (MD) At break, transversal (CMD)	>300 % >300 %	(EN ISO 527-3)	
Burst strength	Maximum burst stress Elongation at break	6.0 N/mm ² ± 0.6 N/mm ² >70 %	(DIN 61551)	
Resistance to static puncture	1.8 kN ± 0.2 kN		(EN ISO 12236)	
Resistance to impact	Method A, 500 g falling weight	Watertight at 750 mm drop height	(EN 12691)	
	Method B	≥750 mm		
Resistance to static loading	No perforation at 20 kg for 24 h		(EN 12730)	
Watertightness	Tested 24 hours at 60 kPa	Pass	(EN 1928)	
Water permeability	<10 ⁻⁶ m ³ ·m ⁻² ·d ⁻¹		(EN 14150)	
Foldability at low temperature	No cracks at -20 °C		(EN 495-5)	
Resistance to tear	Longitudinal (MD) Transversal (CMD)	≥400 N ≥400 N	(EN 12310-1)	
Joint shear resistance	>750 N / 50 mm		(EN 12317-2)	
Dimensional change after heat	>750 N / 50 mm Longitudinal (MD), aged 6 hours at +80 °C	<2 %		
	Longitudinal (MD), aged 6		(EN 12317-2)	
	Longitudinal (MD), aged 6 hours at +80 °C Transversal (CMD), aged 6 hours at +80 °C Change of tensile strength, aged 90 days at +85 °C	<2 %	(EN 1107-2)	
Dimensional change after heat	Longitudinal (MD), aged 6 hours at +80 °C Transversal (CMD), aged 6 hours at +80 °C	<2 %		
Dimensional change after heat	Longitudinal (MD), aged 6 hours at +80 °C Transversal (CMD), aged 6 hours at +80 °C Change of tensile strength, aged 90 days at +85 °C Change in elongation,	<2 %	(EN 1107-2)	
Dimensional change after heat Resistance to oxidation Durability of watertightness against	Longitudinal (MD), aged 6 hours at +80 °C Transversal (CMD), aged 6 hours at +80 °C Change of tensile strength, aged 90 days at +85 °C Change in elongation, aged 90 days at +85 °C Aged 12 weeks at +70 °C,	<15 % <15 %	(EN 1107-2)	

Not resistant to permanent weathering



Resistance to weathering



Resistance to root penetration	Pass		(CEN/TS 14416)
Reaction to fire	Class E		(EN 13501-1)
Behaviour after heat welding of over- laps	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)
Service temperature	Minimum	-10 °C	
	Maximum	+35 °C	

SYSTEM INFORMATION

System structure	Ancillary Products:	
	 Sika® FlexoDrain 	
	 Sikaplan® Geotextiles 	
	 Sika[®] Drains 	
	 Sika® W Tundrains 	
	 Sikaplan® WP Drainage Angles 	
	 Sikaplan® WP Disc 	
	 Sika[®] Waterbars WP 	
	 Sikaplan® WP Tape System 	
	 Sikaplan® WP Control Sockets 	
	 Sikaplan®-8 Separation 	
	 Sikaplan® WP Trumpet Flange 	
	 Sika® Anchors 	
	 Sikaplan® WP Protection Sheets 	

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 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

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.

SUBSTRATE QUALITY

For information on substrate quality / pre-treatment, refer to the following Sika® method statement:

- Sikaplan® WP sheet membrane (PVC) system for waterproofing basements and other below ground structures
- Sikaplan® WP sheet membrane (PVC) system for waterproofing tunnels

APPLICATION METHOD / TOOLS

For information on application, refer to the following Sika® method statement:

- Sikaplan® WP sheet membrane (PVC) system for waterproofing basements and other below ground structures
- Sikaplan® WP sheet membrane (PVC) system for waterproofing tunnels

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.

IMPORTANT

Ventilation in confined spacesAlways ensure good ventilation when applying

the Product in a confined space. 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



Sikaplan® WP 1100-15 HLNovember 2024, Version 04.01
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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.

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