



PRODUCT DATA SHEET

Sikaplan® WP Protection Sheet-21 H

2.1 mm thick PVC protection sheet membrane

PRODUCT DESCRIPTION

Sikaplan® WP Protection Sheet-21 H is a flexible, 2.1 mm thick, homogeneous protective sheet membrane. It is based on polyvinylchloride (PVC-p).

WHERE TO USE

The product is used for:

- Protection of Sikaplan® WP (PVC) membranes in basements
- Protection of Sikaplan® WP (PVC) membranes in tunnels

CHARACTERISTICS / ADVANTAGES

- Good resistance to static puncture and impact
- Contains no recycled materials and no DEHP (DOP) plasticisers

- Part of the complete waterproofing membrane system
- Good dimensional stability under permanent pressure and heat
- Suitable for contact with acidic (soft) water and alkaline environments
- Optimised workability and thermally weldable
- Conditionally UV stable

APPROVALS / CERTIFICATES

- CE marking and declaration of performance based on EN 13491:2004/A1:2006 Geosynthetic barriers — Characteristics required for use as a fluid barrier in the construction of tunnels and underground structures

PRODUCT INFORMATION

Composition / Manufacturing	PVC-p	
Packaging	Roll width	2.2 m
	Roll length	specified
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.	

Appearance / Colour	Surface texture	smooth
	Colour	shades of grey
Effective Thickness	2.10 mm (-0.10 mm / +0.21 mm) (EN 1849-2)	
Mass per unit area	~2.8 kg/m ²	

TECHNICAL INFORMATION

Resistance to Impact	Method A, 500 g falling weight	Watertight at 1000 mm drop height	(EN 12691)
Resistance to Static Puncture	> 2.5 kN		(EN ISO 12236)
Resistance to Root Penetration	pass		(CEN/TS 14416)
Tensile Strength	Longitudinal (MD)	≥ 12 N/mm ²	(EN ISO 527-3)
	Transversal (CMD)	≥ 12 N/mm ²	
Elongation at Break	Longitudinal (MD)	≥ 200 %	(EN ISO 527-3)
	Transversal (CMD)	≥ 200 %	
Service Temperature	Minimum	-10 °C	
	Maximum	+35 °C	
Ambient Maximum Temperature of Liquids	+35 °C		
Water Permeability	< 10 ⁻⁶ m ³ ·m ⁻² ·d ⁻¹		(EN 14150)
Resistance to UV Exposure	Not permanently UV stable		
Resistance to Weathering	Not resistant to permanent weathering		
External Fire Performance	Class E		(EN 13501-1)

SYSTEMS

System Structure	▪ Sikaplan® WP waterproofing membranes
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BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

ENVIRONMENT, HEALTH & SAFETY

This product is a manufactured article that does not require Safety Data Sheets to be marketed, transported or applied at the jobsite, according to the Hazardous Product Act - Section 2. Based on our current knowledge, this product is not classified as dangerous and does not contain any hazardous materials. Always wear personal protective equipment (including safety goggles and gloves) to manipulate and install Sika®

products.

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

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

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

waterproofing tunnels

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.

IMPORTANT

Ventilation in confined spaces

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

IMPORTANT

Not resistant to bitumen

The Product is not resistant to permanent contact with bitumen.

1. For use over or adjacent to bitumen, apply a separation layer of polypropylene geotextile (≥ 150 g/m²).

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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

Sika Canada Inc.

Head Office
601, avenue Delmar
Pointe-Claire, Quebec
H9R 4A9
1-800-933-SIKA
www.sika.ca

Other locations

Boisbriand (Quebec)
Brantford; Cambridge;
Sudbury; Toronto (Ontario)
Edmonton (Alberta)
Surrey (British Columbia)

Product Data Sheet

Sikaplan® WP Protection Sheet-21 H
June 2022, Version 03.01
020720102000000004

SikaplanWPProtectionSheet-21H-en-CA-(06-2022)-3-1.pdf

