

## PRODUCT DATA SHEET

# Sikaplan® WP 1170-21 HL

2.0 mm thick PVC sheet waterproofing membrane for basements and tunnels with signal layer

### DESCRIPTION

Sikaplan® WP 1170-21 HL is a flexible, 2.0 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

### CHARACTERISTICS / ADVANTAGES

- Contains no recycled materials and and harmful ingredients
- Proven performance over decades
- High resistance to ageing
- Good resistance to microbial degradation
- Good resistance to root penetration
- Suitable for contact with acidic (soft) water and alkaline environments
- Optimised flexibility, tensile strength and multi-axial elongation
- Optimised workability and thermally weldable
- No harmful fumes during welding

### PRODUCT INFORMATION

Chemical base	PVC-p	
Recycled content	Nil	
Packaging	Roll width	2.0 m
	Roll length	20 m
Shelf life	2 years from the date of production when stored as per recommended storage conditions	
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
	Signal layer colour	Yellow / Orange
	Bottom layer colour	Black/White
Thickness	≥ 2.0 mm incl. signal layer	(EN 1849-2)

### TECHNICAL INFORMATION

Shore A hardness	> 80	(ASTM D2240)
Resistance to static puncture	1200 ± 5% N	(ASTM E154)
Tensile strength	Longitudinal (MD)	≥ 20 N/mm <sup>2</sup> (ASTM D412)
	Transversal (CMD)	≥ 18 N/mm <sup>2</sup>
Elongation at break	Longitudinal (MD)	≥ 275 % (ASTM D412)
	Transversal (CMD)	≥ 250 %
Water tightness	Resists hydrostatic pressure > 50m head of water	(ASTM D 5385)
Resistance to UV exposure	Not to be exposed for long time once unpacked and installed	
Design Considerations	Ancillary Products: <ul style="list-style-type: none"> <li>▪ Sika® FlexoDrain</li> <li>▪ Sikaplan® Geotextiles</li> <li>▪ Sika® Drains</li> <li>▪ Sika® W Tundrains</li> <li>▪ Sikaplan® WP Drainage Angles</li> <li>▪ Sikaplan® WP Disc</li> <li>▪ Sika® Waterbars WP</li> <li>▪ Sikaplan® WP Tape</li> <li>▪ Sikaplan® WP Control Sockets</li> <li>▪ Sikaplan®-8 Separation</li> <li>▪ Sikaplan® WP Trumpet Flange</li> <li>▪ Sika® Anchors</li> <li>▪ Sikaplan® WP Protection Sheets</li> </ul>	

## APPLICATION INFORMATION

Ambient air temperature	+10 °C min. / +40 °C max.
Substrate temperature	+10 °C min. / +40 °C max.

## 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

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## 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 tunnels

### APPLICATION

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

- Sikaplan® WP sheet membrane (PVC) system for waterproofing tunnels
- Shotcrete application directly onto sheet waterproofing membranes

**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 and plastics

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

For use over or adjacent to these materials, apply a separation layer of polypropylene geotextile (≥ 150 g/m<sup>2</sup>).

## 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.

### Sika India Pvt. Ltd.

620, Diamond Harbour Road  
Commercial Complex II  
Kolkata - 700 034  
West Bengal, India

### Contact:

Phone: +91 33 2447 2448  
Fax: +91 33 2397 8688  
info.india@in.sika.com  
www.sika.in



### Product Data Sheet

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