

PRODUCT DATA SHEET

Sika Waterbar® WP AF-28 IN

PVC-P based flexible waterbars for compartment system of Sikaplan® PVC-P waterproofing membranes

DESCRIPTION

Sika Waterbar® WP AF-28 IN made from PVC-P can be used as flexible waterstops and are designed for the sealing of compartment system of Sikaplan® waterproofing membranes. Sika Waterbar® WP AF-28 IN are available in a range of different types, shapes and sizes to suit different uses, service requirements and exposure conditions.

USES

The flexible waterstops are partially cast into the concrete and are suitable for the compartment system of Sikaplan® PVC waterproofing membranes.

Typical structures include

- Residential building basements
- Commercial building basements
- Underground car parks
- Tunnels
- Water retaining structures and water treatment plants

CHARACTERISTICS / ADVANTAGES

- High durability
- Flaps on each side for welding and/or fixing as appropriate
- Robust products designed for handling and installation on site
- Suitable for thermal welding in shop and on site
- Compatible with Sikaplan® WP 1100-, WP 2110-, etc PVC Waterproofing membrane series
- Free from DOP plasticizer
- Free from lead

PRODUCT INFORMATION

Chemical base	Thermoplastic Plasticized Polyvinyl Chloride (PVC-P)		
Packaging	280 mm (W) x15m (L)		
Shelf life	12 months from date of production		
Storage conditions	The product must be stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +30 °C. Protect from direct sunlight.		
Colour	Black		
Dimensions	Width (mm)	Thickness(mm)	Height Of Leg(mm)
	280 ± 10	3 ± 0.2	30 ± 2

TECHNICAL INFORMATION

Shore A hardness	70 ± 5	(DIN 53505)
Tensile strength	≥10 MPa	(DIN 53455)
Elongation at break	≥ 250 %	(DIN 53455)
Tear strength	≥ 12 N/mm	(DIN 53507)
Chemical resistance	For any additional stresses or exposure to different temperatures and/or chemical mediums outside the substances or situations specifically defined in German Standard DIN 4033, specific additional testing is always required. Sika Waterbar® WP AF-28 IN products are not bitumen resistant according to DIN 18541 and must not be used in contact with, or with potential exposure to any bitumen based materials.	
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.

IMPORTANT CONSIDERATIONS

The following points should be kept in mind for optimum performance

- Transport and handling on site
- Installation at ambient and material temperatures ≥ 0°C
- Protection until the water-stopping system is fully cast in the concrete
- Special care to be taken of free waterstop ends
- To be cleaned before being cast in concrete

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

Installation

Install directly on the concrete blinding, in the external formwork or weld to the Sikaplan® waterproofing membrane.

Nominal Joint Widths

The normal joint width is External movement (expansion) joint

Jointing at site:

The thermoplastic Sika Waterbar® WP AF-28 IN and the detailing / jointing pieces are connected with a Sika® Waterbar Splicing Iron. The welding edges are

melted in the process and fused permanently together whilst in the plastic. Jointing the Sika Waterbar® WP AF-28 IN together with adhesives is not permitted. All on-site welded joints must be formed as stated in the Sika® Waterbar welding instructions/ Method Statement.

Environmental Requirements:

A minimum ambient temperature of + 5°C and dry weather conditions are required for welding on-site.

Factory Produced Jointing Pieces (External Waterbars)

Only transverse butt joints shall be formed by welding on site with Sika Waterbar® WP AF-28 IN. All of the other junctions and joints shall be produced with prefabricated sections. These are available in many different configurations and detailing sections, in order to reduce the number of joints required to be formed on each site to a minimum.

The standard joint detailing sections for External Sika Waterbar® WP AF-28 IN include the following:

- Cross piece flat
- T-piece flat
- L-piece flat

Special Notes On Installation

External Sika Waterbar® WP AF-28 IN waterstops are installed flush with the external face of the concrete. Do not install this type of waterbar on the top surface of

horizontal or only slightly sloping concrete. In situations with negative water pressure external waterbars cannot be used

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



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