

PRODUCT DATA SHEET

Sika Waterbar® O D.Wall VN

FLEXIBLE PVC WATERSTOP

DESCRIPTION

Sika Waterbar® O D.Wall VN is constructed from flexible thermoplastic PVC. It is designed to stop the migration of water through movement joints in concrete structures.

Sika Waterbar® O D.Wall VN is available in various sizes and length to suit all types of application.

USES

For the effective sealing of concrete expansion joints in structures such as:

- Water reservoirs
- Sewage treatment plants
- Swimming pools
- Basements
- Retaining walls

CHARACTERISTICS / ADVANTAGES

- Sealing starts as soon as the concrete has hardened
- Good chemical resistance
- Available various kind of profiles for all type of application
- Suitable for high water pressure

PRODUCT INFORMATION

Chemical Base	Polyvinyl Chloride (PVC)	
Packaging	In rolls: - Standard length: 12 m - Customize length can be provided	
Appearance / Colour	Form/Colour: Flexible strip, yellow Density: ~ 1.40 kg/l (± 5%)	
Shelf Life	5 years from date of production if stored properly	
Storage Conditions	Dry, shaded place (protected from sunlight)	
Total Width	Type	Width mm (± 10%)
	O-20 D Wall	200
	O-25 D Wall	250
Thickness	10.0 mm (± 10%)	

TECHNICAL INFORMATION

Shore A Hardness	70 ± 5	
Tensile Strength	12 N/mm ² ± 5%	(ASTM D412-98)
Elongation	300% ± 5%	(ASTM D412-98 & DIN 18541 Part 2)
Chemical Resistance	Permanent: Seawater, sewage, acids (up to 10% conc.) Temporary: Diluted inorganic alkalis, mineral acids, mineral oils and fuels	
Service Temperature	Welding temperature: Approx. 200 °C	

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.

LIMITATIONS

- Level differences, bends, junctions, etc. should be carefully considered before placing.
- Care should be taken to avoid breathing fumes and smoke during the PVC welding process. Hence, welding should be performed in open, well ventilated area.
- In case of doubt always follow the directions given on the pack or label.

ECOLOGY, HEALTH AND SAFETY

Ecology: Can be disposed according to local law

Transportation: Non-hazardous

Toxicity: Non toxic

APPLICATION INSTRUCTIONS

APPLICATION METHOD / TOOLS

According to common practice on site, the Sika Waterbar® O D.Wall VN is placed to suit the concrete movements in expansion joints. The connections are done by heated blade welding technique.

Sika Waterbar® O D.Wall VN is made by thermoplastic PVC and therefore can be welded. The cut sections are subject to welding are heated up by means of the welding blade until the material gets plastic, and then pressed together.

Installation

The center of Sika Waterbar® O D.Wall VN should be at the concrete joint and at the center of concrete thickness. Steel wires can be used to secure Sika Waterbar® O D.Wall VN in place before pouring the new concrete.

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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