

## PRODUCT DATA SHEET

# Sika® Dilatec® BR-500

PVC multifunctional sealing tape for PVC and bituminous membranes

### DESCRIPTION

Sika® Dilatec® BR-500 is a flexible waterproofing tape based on polyvinyl chloride (PVC) with advanced adhesion properties. The tape terminates and connects bituminous waterproofing membranes to Sikaplan® WP (PVC) sheet membranes. The B-edge on one side is bonded to the bituminous membranes with hot-melt bitumen. The R-edge on the other side is hot air welded to the Sikaplan® WP membranes. Thickness 1,6 mm. Part of the Sika® Dilatec® joint sealing system.

### USES

Sealing of different structures and applications including:

- Bridges
- Basements
- Cut and cover tunnels

Sealing of:

- Connections between adjoining bituminous and PVC waterproofing membranes
- Construction joints

### CHARACTERISTICS / ADVANTAGES

- Multifunctional solution for sealing bituminous membrane to PVC membrane
- Good adhesion properties
- No activation on site required
- High flexibility and joint bridging ability
- Good chemical resistance
- Resistant to weathering
- Root penetration resistant
- Hot air weldable
- Adaptable to many different jointing situations

### APPROVALS / CERTIFICATES

- Elongation, Tensile Strength, Foldability, Puncture and Tear Resistance tests, Sika® Dilatec® BR-500, tecnotest ag, Test report No. A4447-01
- Fire Testing EN ISO 11925, Sika® Dilatec® BR-500, tecnotest ag, Test report No. A4020-08

## PRODUCT INFORMATION

<b>Composition</b>	PVC, bitumen compatible (PVC-P-BV)
<b>Packaging</b>	1 roll of 30 m length Refer to current price list for packaging variations
<b>Shelf life</b>	36 months from date of production
<b>Storage conditions</b>	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Opened and unprotected rolls must be used within 2 months. Always refer to packaging.
<b>Appearance and colour</b>	Tape with glass fibre reinforcement and fabric edging strip. Top surface is light grey, bottom surface is black.
<b>Width</b>	500 mm
<b>Thickness</b>	1,6 mm

## SYSTEM INFORMATION

<b>System structure</b>	Refer to System Data Sheet: Sika® Dilatec®
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## TECHNICAL INFORMATION

<b>Resistance to impact</b>	≥ 650 mm	(SN EN 12691, method A)
<b>Resistance to root penetration</b>	Compliant	(SIA V280)
<b>Tensile strength</b>	> 6,5 N/mm <sup>2</sup>	(EN ISO 527-3)
<b>Elongation</b>	> 200 %	(EN ISO 527-1)
<b>Tear strength</b>	Weld seam strength Failure always adjacent to seam	(DIN 16 726)
<b>Seam strength</b>	Weld seam strength: Failure always adjacent to seam	(DIN 16 726)
<b>Service temperature</b>	-10 °C min. to +40 °C max	
<b>Foldability at low temperature</b>	Passed No cracks at -25 °C	(SN EN 495-5)
<b>Watertightness</b>	Pass (Method B, 24 h/10 bar)	(EN 1928)
<b>Water-vapour transmission rate</b>	~17 000	(SIA V280)
<b>Chemical resistance</b>	Pass (28 d / +23 °C) Pass (Method B, 24h / 60 kPa)	(EN 1847) (EN 1928)
<b>Behaviour after storage in warm water</b>	Compliant	(SIA V280)
<b>Resistance to weathering</b>	Compliant (5000 hours)	(SIA V280)
<b>Thermal ageing</b>	Compliant	(SIA V280)
<b>Reaction to fire</b>	Euroclass E	(EN ISO 11925)

## APPLICATION INFORMATION

<b>Ambient air temperature</b>	Refer to System Data Sheet: Sika® Dilatec®
<b>Substrate temperature</b>	Refer to System Data Sheet: Sika® Dilatec®

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## FURTHER INFORMATION

- System Data Sheet: Sika® Dilatec®
- Sika® Application Manual: Sika® Dilatec®

## IMPORTANT CONSIDERATIONS

- Reference must be made to the Sika® Application Manual: Sika® Dilatec® System and System Data Sheet: Sika® Dilatec®

## 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

### APPLICATION METHOD / TOOLS

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Reference must be made to the Sika® Application Manual: Sika® Dilatec® System.

## 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 the 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.

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Product Data Sheet

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