

PRODUCT DATA SHEET

Sika® Dilatec® BR-500

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 connects and terminates 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. It is part of the Sika® Dilatec® joint sealing system.

Suitable for use in hot and tropical climatic conditions.

USES

Sealing of different structures and applications including:

- Bridges
- Basements
- Cut and cover tunnels

Sealing of:

- Connections and terminations between Sikaplan® WP and bituminous membranes

CHARACTERISTICS / ADVANTAGES

- Multifunctional joint sealing solution
- High flexibility and joint bridging ability
- Good chemical resistance
- Proven performance over decades
- Good adhesion properties
- No activation on site required
- Hot air weldable

APPROVALS / CERTIFICATES

- Material Properties of 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

Composition	PVC, bitumen compatible
Packaging	1 roll of 30 m length Refer to current price list for packaging variations
Appearance / Colour	Grey surface with white fabric edge on one side
Thickness	1,60 mm (-5 % / +10 %) (EN 1849-2)
Width	500 mm
Shelf life	36 months from date of production
Storage conditions	The product must be stored in original, unopened and undamaged 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.

TECHNICAL INFORMATION

Tensile strength	≥ 10,0 N/mm ² (EN ISO 527-3)
Elongation	> 200 % (EN ISO 527-3)
Foldability at low temperature	Pass (-25 °C) (EN 495-5)
Watertightness	Pass (Method B, 24 hours /10 bar) (EN 1928)
Chemical resistance	Pass (28 days / +23 °C) (EN 1847) Pass (Method B, 24 hours / 60 kPa) (EN 1928)
Reaction to fire	Class E (EN ISO 11925)
Service temperature	-10 °C min. to +40 °C max

SYSTEMS

System structure	The following system products must be selected from the following depending on design: Tape ▪ Sika® Dilatec® tape E-220, BE-300, ER-350, B-500, BR-500
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APPLICATION INFORMATION

Ambient air temperature	Refer to relevant hot-melt bitumen and Sikaplan® WP Product Data Sheets.
Substrate temperature	Refer to relevant hot-melt bitumen and Sikaplan® WP Product Data Sheets.

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.

FURTHER INFORMATION

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

IMPORTANT CONSIDERATIONS

- Refer to the Sika System Data Sheet: Sika® Dilatec® System

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.

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.

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).

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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All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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