

PRODUCT DATA SHEET

Sika Waterbar® FB-125

Bonded flexible waterstop for sealing construction joints

PRODUCT DESCRIPTION

Sika Waterbar® FB-125 is a hybrid waterstop with a rough textured surface based on flexible polyolefin (FPO). The waterstop is placed into the fresh concrete and becomes fully embedded in the cured concrete. It provides a fully bonded, durable watertight seal, that prevents any lateral water underflow.

USES

It is designed to seal construction joints as an internal waterstop in watertight concrete constructions. Typical applications:

- Underground structures and basements
- Water retaining structures
- Water treatment plants
- Swimming pools
- Reservoirs
- Retaining walls

CHARACTERISTICS / ADVANTAGES

- Bonded to concrete structure - no lateral water underflow
- Permanent flexibility
- Quick and easy to install
- Long rolls reduce the number of joints
- No special tools and equipment required
- No extra recess and detailing of reinforcement
- No obstructions for concreting
- Fully bonded for easy repair in case of leakage
- Resistant to all natural substances in soil and groundwater
- Durable and robust system
- Can be combined with other proven Sika waterproofing / joint sealing systems

APPROVALS / STANDARDS

- Tests according to EAD 320002-02-0605, ofi, Report No. 2101089_E

PRODUCT INFORMATION

Chemical Base	Hybrid based on flexible polyolefin (FPO)
Packaging	Single roll of 50 m wrapped in foil
Shelf Life	36 months from date of production
Storage Conditions	Product must be stored in original unopened and undamaged packaging in dry conditions and temperatures between +5 °C and +30 °C. 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	Light grey, rough textured surface
Thickness	> 3.00 mm (EN 1849-2)

SYSTEM INFORMATION

System Structure	Accessories used for fixing and installation: <ul style="list-style-type: none">▪ SikaProof® Sandwich Tape-50▪ Mounting brackets▪ Clamping bar set
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TECHNICAL INFORMATION

Shore A Hardness	85 ± 10 %	(DIN 53505)
Tensile Strength	≥ 6 N/mm ²	(EN 12311-2)
Elongation	≥ 400 %	(EN 12311-2)
Adhesion in peel	≥ 50 N / 50 mm	(EN 1372)
Service Temperature	-10 °C min. / +40 °C max.	
Water Tightness	Tight	(EN 1928, Method B)
Resistance to lateral water migration	Pass (7 bar, 7 days)	(ASTM D5385 modified)
Reaction to Fire	Class E	(EN 13501-1)

VALUE BASE

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

Installation work must only be carried out by contractors, experienced in this type of application.

- The Product is not permanently UV and weather resistant. Concrete must be placed within a maximum of 90 days after installation. Otherwise the Product must be protected with appropriate protection sheets.
- A minimal embedment of 30 mm into the fresh concrete must be ensured to prevent lateral water underflow.

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 and working instructions which must always be adjusted to the actual site conditions.

Jointing:

Sika Waterbar® FB-125 is jointed by:

- Thermal welding equipment
- Adhered with SikaProof® Sandwich Tape-50
- Mechanically fixed with a clamping bar set

Installation:

Embed the waterstop a minimum of 30 mm into the fresh concrete to prevent lateral water underflow.

For construction joints of slab to slab / wall to wall:

1. Fix the waterstop directly to the shutter.

For construction joints between slab to wall:

1. Temporarily fix the waterstop to the starter bars
2. Shake the waterstop into the fresh concrete.
3. Fix the waterstop to the fresh concrete with a mounting bracket to keep it upright.

For construction joints between slab to wall (alternative method):

1. Fix the waterstop directly to the upper layer of the reinforcement with mounting brackets or clips. Before casting concrete protect the profile from any damage.

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.

SIKA LIMITED

Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited



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