BUILDING TRUST

PRODUCT DATA SHEET

Sika Waterbar® FB-125

Bonded flexible waterstop for sealing construction joints

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
- Connection from old to new structures

CHARACTERISTICS / ADVANTAGES

- Bonded to concrete structure - no lateral water underflow
- Permanent flexibility
- Quick and easy to install
- Long rolls reduce the number of joins
- 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	
Appearance / Colour	Light grey, rough textured surface	
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.	
Thickness	> 3.00 mm	(EN 1849-2)
Mass per Unit Area	4.1 kg/m² (-5 / +10 %)	(EN 1849-2)
Total Width	> 120 mm	(EN 1849-2)

TECHNICAL INFORMATION

Shore A Hardness	85 ± 10 %	(DIN 53505)
Tensile Strength	≥ 6 N/mm²	(EN 12311-2)
Elongation	≥ 400 %	
Reaction to Fire	Class E	(EN 13501-1)
Water Tightness	Tight	(EN 1928)
Service Temperature	-10 °C min. / +40 °C max.	
Adhesion in Peel	≥ 50 N / 50 mm	
Resistance to lateral water migration	Pass (7 bar, 7 days)	(ASTM D5385 / D5385M)

SYSTEM INFORMATION

System Structure	Accessories used for fixing and installation: ▪ SikaProof® Sandwich Tape-50 ▪ Mounting brackets ▪ Clamping bar set

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

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

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 this 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

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 at least 30 mm into the fresh concrete to prevent lateral water underflow.

There are two methods for installing and casting the waterbar (choose the most suitable method for your application):

Option A: Standard Method (Most common for slab-wall, slab-slab, or wall-wall applications)

1. Pre-install the waterbar to the reinforcement to keep it in place.

2. Pour the concrete (use a plywood or cardboard protection between the rebars and the waterbar to keep the waterbar clean).

3. Clean the waterbar to remove any concrete residues, if needed.

Option B: Simplified Method (Mainly for slab-wall applications)

1.Temporarily fix the waterstop to the starter bars.

2. Shake the waterstop into the fresh concrete.

3. Secure the waterstop in the fresh concrete with a mounting bracket to keep it upright.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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