

BUILDING PRODUCT INFORMATION 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

FEATURES

- 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 / CERTIFICATES

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

PRODUCT INFORMATION

Product identifier	Sika Waterbar® FB-125	
Place of manufacture	Overseas	
Composition	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 and colour	Light grey, rough textured surface	
Thickness	> 3.00 mm	(EN 1849-2)
Mass per area	4.1 kg/m ² (-5 / +10 %)	(EN 1849-2)

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.	
Watertightness	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)

SYSTEM INFORMATION

System structure Accessories used for fixing and installation:

- SikaProof® Sandwich Tape-50
- Mounting brackets
- Clamping bar set (Indent only)

MANUFACTURER AND IMPORTER INFORMATION

Manufacturer information	Address	Sika Limited - Vietnam 10th Street, Nhon Trach 1, Dong Nai, Vietnam
Importer information	Address	Sika (NZ) Limited 85-91 Patiki Road Avondale, Auckland 1026 New Zealand
	Phone number	0800 745 269
	Website	https://nzl.sika.com/
	Email address	info@nz.sika.com
	NZBN	9429000018791

BUILDING CODE INFORMATION

Building Code clauses B2 Durability: Performance clause B2.3.1-(a) not less than 50 years
E2 External Moisture: Performance clause E2.3.3
F2 Hazardous Building Materials: Performance clause F2.3.1

Building Code compliance statements Performance B2.3.1 (a) 50 years: This product has been evaluated in accordance with B2/VM1. It meets this durability requirement and will remain serviceable for 50 years, or more, when installed and maintained in accordance with the relevant Sika technical literature. nzl.sika.com. According to Sika's "Service Improvement" records, maintained within its ISO9001:2015 Quality Management System, this product has performed successfully since it was introduced in 1998.

Performance E2.3.3: When this product is used in joints as part of a waterproofing system, in conjunction with a membrane / DPC under the concrete floor, or behind the concrete wall it contributes to the wall or floor meeting the requirements of E2.3.3

Performance F2.3.1: This product meets this requirement when used and applied in accordance with Sika's installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Sika Product Technical Data sheet and product Safety Data Sheet nzl.sika.com for further information if required

BASIS OF PRODUCT DATA

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

IMPORTANT CONSIDERATIONS

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

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.

MAINTENANCE REQUIREMENTS

No maintenance of the Sika membrane system will be required, provided that significant substrate movement does not occur within the impervious wall / floor lining or finish that has been applied over the top. Regular checks of the wall / floor finish must be made to ensure that it is sound and will not allow moisture to penetrate it. Any cracks or damage must be repaired immediately, in consultation with the supplier of the lining 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. 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.

The building product/building product line is not subject to warning or ban under section 26 of the Building Act 2004.

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NZ BUILDING PRODUCT INFORMATION SHEET

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