

## 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

### 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 / CERTIFICATES

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

### PRODUCT INFORMATION

<b>Composition</b>	Hybrid based on flexible polyolefin (FPO)
<b>Packaging</b>	Single roll of 50 m wrapped in foil
<b>Shelf life</b>	36 months from date of production
<b>Storage conditions</b>	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.
<b>Appearance and colour</b>	Light grey, rough textured surface
<b>Thickness</b>	> 3.00 mm <span style="float: right;">(EN 1849-2)</span>

## SYSTEM INFORMATION

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

<b>Shore A hardness</b>	85 ± 10 %	(DIN 53505)
<b>Tensile strength</b>	≥ 6 N/mm <sup>2</sup>	(EN 12311-2)
<b>Elongation</b>	≥ 400 %	(EN 12311-2)
<b>Adhesion in peel</b>	≥ 50 N / 50 mm	(EN 1372)
<b>Service temperature</b>	-10 °C min. / +40 °C max.	
<b>Watertightness</b>	Tight	(EN 1928, Method B)
<b>Resistance to lateral water migration</b>	Pass (7 bar, 7 days)	(ASTM D5385 modified)
<b>Reaction to fire</b>	Class E	(EN 13501-1)

## 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.

## 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

### 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 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 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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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