

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 splices
- No special tools and equipment required
- No extra recess and detailing of reinforcement
- No obstructions during concrete placement
- 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

PRODUCT INFORMATION

Chemical Base	Hybrid based on flexible polyolefin (FPO)
Packaging	Single roll of 50 m (164 ft) wrapped in plastic
Appearance / Color	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 +40 °F and +86 °F. 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)

Total width	> 120 mm	(EN 1849-2)
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TECHNICAL INFORMATION

Shore Hardness	65 ± 3 68 ± 3 (Aged)	(ASTM D2240) (ASTM D2240)
Modulus of Elasticity in Flexure	≥ 4300 psi	(ASTM D746)
Elongation	≥ 375 %	(ASTM D638)
Reaction to Fire	Class E	(EN 13501-1)
Service Temperature	-10 °C min. / +40 °C max.	
Adhesion in peel	≥ 22 lbf-in	(ASTM D903)
Resistance to lateral water migration	Pass (7 bar, 7 days)	(ASTM D5385 modified)
Ambient Air Temperature	Low Temperature Brittleness Passes at -20°F	(ASTM D746)

SYSTEM INFORMATION

System Structure	Accessories used for fixing and installation: <ul style="list-style-type: none"> ▪ SikaProof® Tape A+N ▪ Hot Air Welding Machine with 40mm nozzle
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BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

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 1 inch into the fresh concrete must be ensured to prevent lateral water underflow.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

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.

Thermal Splicing (Heat Welding):

Sika Waterbar® FB-125 is spliced by:

- Thermal welding equipment
- Adhered with SikaProof® Tape A+N

Installation:

Embed the waterstop a minimum of 1 inch into the fresh concrete to prevent lateral water underflow.

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

1. Place the waterstop directly into the formwork.
2. Sandwich the waterstop between wooden forms at least 1 inch thick to ensure proper embedment in the subsequent concrete pour.

For construction joints between slab to wall:

1. Temporarily fix the waterstop to the starter bars
2. Work the waterstop into the fresh concrete.
3. Ensure the waterstop is vertical (or perpendicular to the joint line).

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.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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