

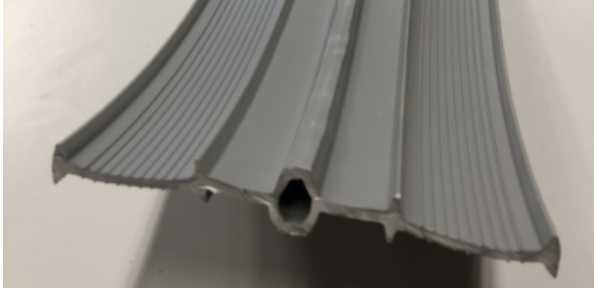
PRODUCT DATA SHEET

Sika Waterbar® D-240 FPO

Internal waterbars for expansion joints

PRODUCT DESCRIPTION

Sika Waterbar® D-240 FPO are flexible, internal waterbars for expansion joints made from FPO.



USES

Expansion joint for the SikaWaterbar®FB-125
Watertight expansion joint sealing in new concrete structures.

Typical structures include for example:

- Residential building basements
- Commercial building basements
- Underground car parks
- Water retaining structures

PRODUCT INFORMATION

Chemical Base	FPO (flexible polyolefin)
Packaging	Roll length: 25 m
Shelf Life	Up to 60 months from date of production.
Storage Conditions	Store in originally sealed, undamaged packaging, in a dry place at temperatures between +5°C and +30°C. Long-term storage ≥ 6 months: <ul style="list-style-type: none"> ▪ The storage area must be covered, cool, dry, free from dust and moderately ventilated. ▪ The waterbars must be protected from heat and UV radiation.

CHARACTERISTICS / ADVANTAGES

- Permanent flexibility
- High strength and elongation
- Doesn't contain any plasticizers
- Resistant to ageing
- Homogeneous waterbar
- High resistance to mechanical stress
- Compatible with bitumen
- Resistant to all natural mediums in soil and groundwater
- Robust products designed for handling and installation on site
- Suitable for hot air or hot wedge welding
- Suitable for thermal welding with SikaWaterbar®FB-125

APPROVALS / STANDARDS

- Determination of material properties; ofi, Wien (AT)
- Dimensions fulfill DIN 18541-1
- Compatible with bitumen according DIN 18541-2

Short-term storage < 6 months (on construction sites, outdoors < 6 weeks):

- In dry conditions, protected from UV radiation, snow and ice, and any kind of contamination or mechanical damage.
- Store separately from any potentially harmful or damaging materials, plant or equipment such as structural steel, steel reinforcement, fuel or vehicles, etc.
- Store away from trafficked areas and roads on site to avoid damage.

Colour	Grey	
Width	240 mm	
Thickness	4.0 mm	
Tensile Strength	≥ 15 MPa, longitudinal	(EN ISO 527-2)
Elongation at break	≥ 600 % longitudinal	(EN ISO 527-2)
Tear Strength	> 30 N/mm	(ISO 34-1)
Ambient Maximum Temperature of Liquids	Pressurised water	-20°C min. / +40°C max.
	Non-pressurised water	-20°C min. / +60°C max.
Flexibility at low temperature	No cracks at -20°C	(EN 495-5)
Chemical Resistance	Permanent resistant at +23°C: water, seawater, alcalic water and wastewater, deicing salt solutions. Temporarily resistant against: diluted anorganic alcalies and mineral acids, mineral oils	
Reaction to Fire	Class E	(EN ISO 11925-2)
Ambient Air Temperature	+5°C min. / +35°C max.	

VALUE BASE

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

LIMITATIONS

- The quality of the joint sealing depends on the fully enclosure of the waterbar with concrete. In order to obtain a qualitative embedding, gravel nests have to be avoided.
- For a watertight building, attention must be paid to a closed waterbar-system.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

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

Application:

Install the waterbar in the center of the concrete structure. It should be carefully fixed in the formwork before concreting. The waterbar fixing clips shall be installed at maximum 25 cm centres and fixed to the steel reinforcement.

Welding:

The specific welding parameters must be adjusted and checked on samples prior to the welding work. A minimum ambient temperature of +5 °C and dry weather conditions are required for welding on site. Sika Waterbar® D-240 FPO can be connected by butt welding with suitable welding equipment. The welding edges are melted in the process and fused permanently together whilst in the plastic state.

For the connection with SikaWaterbar®FB-125 also the overlapped thermal welding is possible.

Protection of exposed waterbars on site:

The waterbars should be protected from damage until they are fully embedded into the concrete. The waterbar must be cleaned before concreting.

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.

SIKA IRELAND LIMITED

Ballymun Industrial Estate
Ballymun
Dublin 11, Ireland
Tel: +353 1 862 0709
Web: www.sika.ie
Twitter: @Sikalreland



Product Data Sheet

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