

Sikaflex®-11 FC

One-component, Fast Curing, Polyurethane Sealant and Adhesive

Product Description

Sikaflex®-11 FC is a one-component, fast, moisture curing, polyurethane based, tough elastic compound which is equally efficient as a flexible sealant or high strength adhesive.
Suitable for use in hot or tropical climates.

Uses

Sikaflex®-11 FC is a versatile product used as a joint sealant and elastic adhesive.

Flexible bonding of:

- Lightweight building components, claddings, tiles etc.
- Rim and rebate sealing:
- Ventilation ducts
- Rolling stock
- Containers
- Sheet metal enclosures and claddings

Jointing of:

- Ceramic tiles
- Pipe entries
- Floor gullies

Not to be used for jointing between pre-cast concrete panels

Advantages

- Easy and economical to use
- Ready-to-use, no mixing
- Odourless
- Non staining
- Fast setting
- Non-sag
- Good weathering and aging properties
- Good adhesion to most surfaces without primer
- Suitable for contact with drinking water

Product Data

Type	Polyurethane Elastomer
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Colour	White and Black
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Packaging	310 ml cartridges (12 per carton). 600 ml unipack (20 per carton).
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Storage Condition	Store in original sealed containers in a cool and dry environment between 5°C and 25°C away from direct sunlight.
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Shelf life	12 months from date of production if stored properly in original, unopened packing
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Technical Data

Density	1.15 – 1.20 kg/lit (depending on colour)			
Service temperature	Dry: -40°C to +80°C, temporary +90°C Wet: up to +50°C, temporary +60°C			
Application temperature	+5°C to +35°C			
Movement capacity	10% of average joint width			
Tack free time	Approximately 50 minutes depending on climatic conditions			
Shore A hardness	40-45			
Curing speed	20°C / 65% r.h: Approximately 3 mm in 24 hours 5°C / 65% r.h: Approximately 1 mm in 24 hours			
Tensile strength (DIN 52 455)	50% elongation = 0.5 N/mm ²			
Tensile shear strength (DIN 53 515)	After	1 day ~0.5 N/mm ²	3 days ~1.0 N/mm ²	7days ~1.2 N/mm ²
Tensile strength (at break)	1.4 N/mm ²			
Tear strength (DIN 53 515)	> 7 N/mm ²			
Elongation at break	500%			
Recovery	90%			
Peel Strength (DIN 53 252)	15 N/mm ²			
Weight loss during curing	< 8%			
Sag-flow test 26mm joint (DIN 52 454)	< 2 mm			
Chemical resistance	<p>Long term to: Water, watery detergents and cleaning solutions, seawater, rinse water, diluted inorganic acids and lyes.</p> <p>Temporary to: Mineral, vegetable and animal oils and fats, fuels.</p> <p>Not or only short term to: Organic solvents (ketones, esters, aromatics) paint and lacquer thinner, strong acids and lyes</p>			

Application Details

Substrate Preparation:	The surfaces must be sound, clean, dry and free from oil, laitance and all loosely adhering particles. If necessary the substrate should be cleaned by grinding or sandblasting.
Primer	See "Sika Primer Chart". Use Sika® Primer-3 on porous surfaces only, such as: concrete, timber and brickwork.
Application	Use a suitable Sika sealant gun
Cleaning	Clean all tools and equipment immediately after use with Colma-Cleaner. Hardened material can only be removed mechanically.

Remarks	<ul style="list-style-type: none"> ■ For the crosslinking process (curing), access of sufficient moisture (from air and substrate) is necessary. ■ If sealer wats are applied, please take maximum total joint movement of 10% of average joint width into consideration. ■ If used as a tile adhesive on walls and overhead, tiles must be secured by mechanical means. ■ Do not use Sikaflex®-11FC on the following surfaces: polyethylene, polypropylene, silicon or Teflon. When in doubt consult Sika's Technical Department, or carry out adhesion tests. ■ Protect against water for 2-3 hours after application ■ Panels bonded to walls and ceiling need to be secured mechanically ■ When exposed to weathering, Sikaflex®-11FC white colour may discolour slightly. ■ May be overcoated with dispersion type elastic paints, synthetic oil or nitro based paints. Pre-testing for compatibility is absolutely necessary.
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Notes	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.
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Safety	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.
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Legal Notes	<p>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.</p>
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