

PRODUCT DATA SHEET

Sikaflex[®]-11 FC

One-part polyurethane adhesive sealant for building

DESCRIPTION

Sikaflex[®]-11 FC is an one-part polyurethane high modulus flexible sealant/adhesive. It is suited for indoor and outdoor application.

USES

Joints in the construction industry, particularly where a higher modulus and lower movement capacity are required for joints with low or medium movement

- Connection joints between floor/stair and wall
- Connection joints between floor and machinery (such as door, window etc..)
- Seam sealing/sealing of pipe ducts/ventilation systems
- Multipurpose in metal and wood construction work

CHARACTERISTICS / ADVANTAGES

- One component, ready to use
- Non-sag consistency, good application property
- Very good adhesion to many construction materials
- High tear strength
- Can be over painted, can be sanded

PRODUCT INFORMATION

Composition	1-part polyurethane, moisture curing	
Packaging	600 ml foil pack, 20 foil packs per box	
Shelf life	Sikaflex [®] -11 FC has a shelf life of 12 months from the date of production, if it is stored in undamaged, original, sealed packaging, and if the storage conditions are met.	
Storage conditions	Sikaflex [®] -11 FC shall be stored in dry conditions, where it is protected from direct sunlight and at temperatures between +5 °C and +25 °C.	
Colour	white, grey, black	
Density	1.26 kg/l approx.	(DIN 53479)

TECHNICAL INFORMATION

Shore A hardness	39 approx. (23°C / 50%r.h. after 28 days)	(DIN 53505)
Tensile strain at break	>300% (23°C / 50 % r.h.)	(DIN 53504)

Movement capability

20HM

(ISO 11600)

Elastic recovery

>70% (23°C / 50 % r.h.)

(DIN EN ISO 7389 B)

Service temperature

-40°C to +90°C

Chemical resistance

Resistant to fresh water, seawater, limewater, sewage effluent, diluted acids and caustic solutions; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; not resistant to organic acids, alcohol, concentrated mineral acids and caustic solutions or solvents.

Joint design

Min. width = 10 mm / max. width = 30 mm

Design values

The joint width must be designed to suit the movement capability of the sealant. In general the joint width must be ≥ 10 mm.
Minimum joint width for perimeter joints around windows: 10mm.
All joints must be properly designed and dimensioned by the specifier and the main contractor in accordance with the relevant standards, because changes are not usually feasible after construction. The basis for calculation of the necessary joint width are the technical values of the joint sealant and the adjacent building materials, plus the exposure of the building, its method of construction and its dimensions.
Backing: Use only closed cell, polythylene foam backing rods.

APPLICATION INFORMATION

Sag flow

0 mm, very good

(DIN EN ISO 7390)

Ambient air temperature

+5°C to +35°C

Substrate temperature

+5°C to +35°C

Substrate moisture content

Dry

Curing rate

4mm / 24 hrs approx. (23°C / 50% r.h.)

Skinning time

60 min approx. (23°C / 50% r.h.)

BASIS OF PRODUCT DATA

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

IMPORTANT CONSIDERATIONS

Elastic sealants may not be overpainted.
Compatible coatings may cover the joint sides to max. 1mm. The compatibility must be tested according to DIN 52 452-2.
Colour variations may occur due to exposure to chemicals, high temperatures and/or UV-radiation (especially with the colour shade white). However, a change in colour is purely of aesthetic nature and does not adversely influence the technical performance or durability of the product.
Before using on natural stone contact our Technical Service.
Do not use Sikaflex®-11 FC as a glass sealer, on bituminous substrates, natural rubber, EPDM rubber or on any building materials which might bleed oils, plasti-

cizers or solvents that could attack the sealant.
Do not use Sikaflex®-11 FC to seal swimming pools.
Not suitable for joints with water pressure or for permanent water immersion.
Do not mix with or expose uncured Sikaflex®-11 FC to substrates that may react with isocyanates, specially alcohols which are often components within e.g. thinners, cleaning agents and formwork releasing compounds. Such contact could interfere or prevent the cross linking curing reaction.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

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APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Substrate Quality

Clean and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Cement laitance must be removed.

Substrate Preparation / Priming

Non porous substrates:

E.g. metals, powder coatings etc. have to be cleaned with a fine abrasive pad and Sika® Cleaner-205 by using a clean towel / cloth.

After a flash off time of at least 15 min, apply Sika® Primer-3 N by using a brush.

Before sealing allow a flash off time of at least 30 min. (max. 8 hrs.).

Porous substrates:

E.g. concrete, aerated concrete and cementitious renders, mortars, bricks, etc. have to be primed with Sika® Primer-3 N by using a brush.

Before sealing allow a flash off time of at least 30 min. (max. 8 hrs.).

Important note: Primers are only adhesion promoters. They neither substitute for the correct cleaning of the surface nor improve their strength significantly.

Primers improve long term performance of a sealed joint.

For further information refer to the Sika® Primer table.

APPLICATION METHOD / TOOLS

Sikaflex®-11 FC is supplied ready to use.

After suitable joint and substrate preparation, insert backing rod to required depth and apply primer if necessary. Insert cartridge into sealant gun and firmly extrude Sikaflex®-11 FC into joint making sure that it is full contact with the side of the joint. Fill the joint, avoiding air entrapment. Sikaflex®-11 FC must be tooled firmly against joint sides to ensure good adhesion.

Masking tape must be used where sharp joint lines or exceptionally neat lines are required. Remove the tape whilst the sealant is still soft. Sleek joint with smoothing liquid for a perfect sealant surface.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Remover-208 / Sika® TopClean-T immediately after use. Hardened / cured material can be removed mechanically.

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 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.

