Sikaflex® -11 FC is a one-component high modulus flexible polyurethane sealant/adhesive for indoor and outdoor application.

USES
As an elastic adhesive for:
- Assembling metal framed buildings.
- Cover plates and covings.
- Light-weight construction materials.
- Acoustic ceiling tiles.
- Wood, metal or plastic window and door frames.
- Floor mouldings and door sills.

As an elastic joint sealant for:
- Sealing joints in concrete, epoxy, stone and quarry tiled floors.
- Sealing joints in roofing and guttering, etc.
- Flexible draught proofing.
- Containers, water tanks and soils.
- Bolted lap joints.
- Sanitary purposes
- Connection joints between floor/stair and wall.
- Connection joints between floor and machinery.
- Seam sealing / sealing of pipe ducts / ventilation systems

CHARACTERISTICS / ADVANTAGES
- New Sikaflex®-11FC will bond to well cleaned old Sikaflex®-11FC.
- Excellent adhesion on all cement-based materials, brick, ceramics, metals, wood, polyurethane, epoxy, and some polyesters.
- Fast cure rate.
- High durability.
- High abrasion resistance and tear strength.
- Good weathering and water resistance.
- Non-sag consistency
- Ready for immediate use - no mixing.
- Non-corrosive.
Can be painted over with many water, solvent and rubber-based paints (preliminary tests recommended).
- Good chemical resistance.
- Withstand water pressure.

**PRODUCT DATA**

**FORM**

**COLOURS**
White (Creamy white), Concrete Grey, Black, Beige

**PACKAGING**
600ml sausages, 20 ssg per box

**STORAGE**

**STORAGE CONDITIONS / SHELF-LIFE**
12 months from date of production if stored properly in undamaged and unopened original sealed packaging in cool dry conditions. Protect from direct sunlight and frost.

**TECHNICAL DATA**

**CHEMICAL BASE**
Accelerated moisture curing polyurethane prepolymer

**DENSITY**
Approx. 1.2kg/ltr (depending on colour shade)

**SKINNING TIME**
Approx. 60 minutes depending on climate

**CURING SPEED**
Approx.3mm/24h (at +23°C / 50% r.h.)

**VOC DATA**
VOC content (ready to use) not exceeding 250gm/litre [Type of regulated paint under the Air Pollution Control (volatile organic compounds) Regulation of Hong Kong: (Architectural Sealants)].

**MECHANICAL / PHYSICAL PROPERTIES**

**BOND STRENGTH**
0.5 Mpa

**TENSILE STRENGTH**
Approx. 0.5 Mpa @50% elongation +20°C

**TENSILE STRENGTH AT BREAK**
Approx. 1.4 Mpa

**TEAR PROPAGATION RESISTANCE**
7 MPa
MOVEMENT CAPABILITY
15%

SAG FLOW
0mm, very good

SHORE A HARDNESS
45

ELASTIC RECOVERY
>70%

ELONGATION AT BREAK
Approx. 400%

CHEMICAL RESISTANCE
Resistant to water, seawater, diluted alkalis, cement grout and water dispersed detergents.

Not resistant to alcohols, organic acids, concentrated alkalis and concentrated acids, chlorinated and aromatic (hydro-carbons) fuel.

SYSTEM INFORMATION

APPLICATION DETAILS

CONSUMPTION / COVERAGE

The joint width must be designed to suit the movement capability of the sealant. In general the joint width must be > 10 mm and < 35 mm. A width to depth ratio of ~ 1 : 0.8 (for floor joints) must be maintained.

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 is 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. Joints < 10 mm are for crack control and therefore non movement joints. Relevant is the joint width at the time of application of the sealant (guide value of +10°C.)

Approximate consumption (for floor joints)

<table>
<thead>
<tr>
<th>Joint Width</th>
<th>10mm</th>
<th>15mm</th>
<th>20mm</th>
<th>25mm</th>
<th>30mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joint Depth</td>
<td>10mm</td>
<td>12-15mm</td>
<td>17mm</td>
<td>20mm</td>
<td>25mm</td>
</tr>
<tr>
<td>Joint Length/sg</td>
<td>~6m</td>
<td>~2.5-3m</td>
<td>~1.8m</td>
<td>~1.2m</td>
<td>~0.8m</td>
</tr>
</tbody>
</table>

Minimum joint width for perimeter joints around windows: 10 mm

Backing: Use only closed cell, polyethylene foam backing rods
SURFACE QUALITY
Clean, sound, dry and free of oil, grease and surface contaminants such as form release agents, curing membranes and hydrophobic water repellants. Thoroughly remove all loose particles and dust.

SUBSTRATE PREPARATION

Non porous substrates:
E.g. metals, powder coatings etc. have to be cleaned with a fine abrasive pad and SikaCleaner 205 by using a clean towel / cloth.
After a flash off time of at least 15 min, apply SikaPrimer-3 N by using a brush.
Before sealing allow a flash off time of at least 30 min. (max. 8 hrs.).
For PVC use SikaPrimer 215.
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, brick, etc. have to be primed with SikaPrimer-3N 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 INSTRUCTIONS

APPLICATION METHOD/TOOLS
Sikaflex® -11FC 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® 11FC 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 exact 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.

SERVICE TEMPERATURE
-30°C to +80°C

SUBSTRATE TEMPERATURE
+5°C to 40°C
AMBIENT TEMPERATURE
+5°C to 40°C

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

NOTES ON APPLICATION / LIMITATIONS
- Elastic sealants may not be over painted.
- Compatible coatings may cover the joint sides to max. 1 mm. The compatibility must be tested according to DIN 52 452-2.
- Colour deviations may occur due to exposure to chemicals, high temperatures, UV-radiation (especially with colour shade white). However a change in colour will not adversely influence the technical performance or the durability of the product.
- Before using on natural stone contact our Technical Services Department.
- Do not use Sikaflex®-11 FC as a glass sealer, on bituminous substrates, natural rubber, EPDM rubber or on building materials which might bleed oils, plastisizers or solvents which could attack the sealant.
- Do not use Sikaflex®-11 FC to seal swimming pools.
- Not suitable for joints with water pressure or permanent water immersion.
- Do not mix with or expose uncured Sikaflex®-11 FC to substances that may react with isocyanates, especially alcohols which are often components within e.g. thinners, solvents, cleaning agents and formwork releasing compounds. Such contact could interfere or prevent the cross linking curing reaction of the material.
**VALUE BASE**

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.

**LOCAL RESTRICTIONS**

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

**HEALTH AND SAFETY INFORMATION**

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

**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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

**FOR MORE PRODUCT NAME® INFORMATION:**

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