

PRODUCT DATA SHEET

Sikaflex®-11 FC+

GENERAL PURPOSE ADHESIVE



DESCRIPTION

Sikaflex®-11 FC+ is a 1-component, solvent-free joint sealant and multipurpose adhesive with high non-sag consistency.

USES

- **SEALING:** Sikaflex®-11 FC+ is designed as a joint sealant for vertical and horizontal joints, soundproofing of pipes between concrete and sheathing, caulking between partitions, seam sealing, sealing in metal and wood construction and for ventilation construction.
- **BONDING:** Sikaflex®-11 FC+ is designed as a multipurpose adhesive for indoor and outdoor bonding of window sills, thresholds, stair steps, skirting boards, base boards, crash protection boards, covering boards and prefabricated elements.

CHARACTERISTICS / ADVANTAGES

- Silicone-free
- Very good adhesion to most construction materials
- No need to grout the bonded areas
- Good mechanical resistance
- Good resistance to weathering
- Impact and vibration absorbing
- Very low emissions

SUSTAINABILITY

- LEEDv5 Attestation
- VOC emission classification GEV-Emicode EC1^{PLUS}
- Class A+ according to French Regulation on VOC emissions

APPROVALS / STANDARDS

- EN 15651-1 F EXT-INT CC 25HM
- EN 15651-4 PW EXT-INT CC 25HM
- ASTM C920 class 35
- Approval for Food Compatibility (ISEGA)

PRODUCT INFORMATION

Chemical base	<i>i</i> -Cure technology polyurethane	
Packaging	300 ml cartridge	12 cartridges per box
Colour	Colour range to be defined by local sales organisation	
Shelf life	15 months from the date of production	
Storage conditions	The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +25 °C. Always refer to packaging.	
Density	~1,35 kg/l	(ISO 1138-1)

TECHNICAL INFORMATION

Shore A Hardness	~39 - 41 (after 28 days)	(ISO 868)
Tensile Strength	>1 MPa	(ISO 37)
Movement Capability	±35%	(ASTM C 719)
CHEMICAL RESISTANCE	Resistant to many chemicals. Contact Sika® Technical Services for additional information.	
Service temperature	-40°C min. / +80°C max.	

Joint Design	The joint dimensions must be designed to suit the movement capability of the sealant. The joint width must be ≥ 10 mm and ≤ 35 mm. A width to depth ratio of 2:1 for facade joints must be maintained (for exceptions, see table below).
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Typical joint dimensions for joints between concrete elements:

Joint distance (m)	Minimum joint width (mm)	Minimum joint depth (mm)
2	10	10
4	15	10
6	20	10
8	30	15
10	35	17

Minimum joint width for perimeter joints around windows is 10 mm.
All joints must be correctly designed and dimensioned in accordance with the relevant standards and codes of practice before their construction. The basis for calculation of the necessary joint widths are the type of structure, dimensions, technical values of the adjacent building materials, joint sealing material and the specific exposure of the building and the joints. Joints ≤ 10 mm in width are for crack control and therefore non-movement joints.
For larger joints contact Sika Technical Services for additional information.

APPLICATION INFORMATION

Yield	Bonding		
	Yield		Dimension
	1 Cartridge (300 ml)		
	~100 spots		Diameter = 30 mm Thickness = 4 mm
	~15 m bead		Nozzle diameter = 5 mm (~20 ml per linear meter)
	Sealing		
	Joint width mm	Joint depth mm	Joint length m per Cartridge (300 ml)
	10	10	3,0
	15	12	1,6
	20	17	0,9
	25	20	0,6
	30	25	0,4
Consumption depends on the roughness and absorbency of the substrate. These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.			
Backing Material	Use closed cell, polyethylene foam backing rod		
Ambient Air Temperature	+5°C min. / +40°C max.		
Substrate Temperature	+5°C min. / +40°C max. Minimum +3°C above dew point temperature		
Curing Rate	~3,5 mm/ 24 hours (+23°C / 50% r.h.) *Sika Corporate Quality Procedure		(CQP* 049-2)
Skin time	~70 min (+23°C / 50% r.h.)		(CQP 019-1)

BASIS OF PRODUCT DATA

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.

IMPORTANT CONSIDERATION

- For good workability, the adhesive temperature must be +20°C.
- Application during high temperature changes is not recommended (movement during curing).
- Before bonding or sealing, check adhesion and compatibility of paints and coatings by carrying out preliminary trials.
- Sikaflex®-11 FC+ can be overpainted with most conventional water-based coating and paint systems. However, paints must first be tested to ensure compatibility by carrying out preliminary trials. The best over-painting results are obtained when the adhesive is allowed to fully cure first. Note: non-flexible paint systems may impair the elasticity of the adhesive and lead to cracking of the paint film.
- Colour variations may occur due to the exposure in service to chemicals, high temperatures and/ or UV-radiation (especially with white colour shade). This effect is aesthetic and does not adversely influence the technical performance or durability of the product.
- Always use Sikaflex®-11 FC+ in conjunction with mechanical fixings for overhead applications or heavy components.
- For very heavy components provide temporary support until Sikaflex®-11 FC+ has fully cured.
- Full surface applications / fixings are not recommended since the inner part of the adhesive layer may never cure.
- Before using on reconstituted, cast or natural stone, contact Sika Technical Services.
- Do not use on bituminous substrates, natural rubber, EPDM rubber or on any building materials which might leach oils, plasticisers or solvents that could degrade the adhesive.
- Do not use on polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE / Teflon), and certain plasticised synthetic materials. Preliminary trials are recommended or contact Sika® Technical Services.
- Do not use to seal joints in and around swimming pools or areas containing chlorine-based cleaning chemicals.
- Do not use for joints under water pressure or for permanent water immersion.
- Do not use for sanitary joints.
- Do not use for trafficked floor joints. Contact Sika® Technical Services for advice on alternative products.
- Do not use for sealing or structural bonding glass if the bond line is exposed to sunlight.
- Do not expose uncured Sikaflex®-11 FC+ to alcohol containing products as this may interfere with the

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.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The substrate must be sound, clean, dry and free of all contaminants such as dirt, oil, grease, cement laitance, old sealants and poorly bonded paint coatings which could affect adhesion of the adhesive/ sealant. The substrate must be of sufficient strength to resist with the stresses induced by the sealant during movement. Removal techniques such as wire brushing, grinding, sanding or other suitable mechanical tools can be used.

All dust, loose and friable material must be completely removed from all surfaces before application of any activators, primers or adhesive/ sealant.

Sikaflex®-11 FC+ adheres without primers and/ or activators.

However, for optimum adhesion, joint durability and critical, high performance applications the following priming and/ or pre-treatment procedures must be followed:

Non-porous substrates

Aluminium, anodised aluminium, stainless steel, PVC, galvanised steel, powder coated metals or glazed tiles, slightly roughen surface with a fine abrasive pad.

Clean and pre-treat using Sika® Cleaner P or Sika® Aktivator-205 applied with a clean cloth.

Before bonding/ sealing, allow a waiting time of >15 minutes (<6 hours).

Other metals, such as copper, brass and titanium-zinc, clean and pre-treat using Sika® Cleaner P or Sika® Aktivator-205 applied with a clean cloth. After a waiting time of >15 minutes (<6 hours). Apply Sika® Primer-3 N by brush.

Allow a further waiting time of >30 minutes (<8 hours) before bonding / sealing,

PVC has to be cleaned and pre-treated using Sika® Primer-215 applied with a brush.

Before bonding/ sealing, allow a waiting time of >15 minutes (<8 hours).

Porous substrates

Concrete, aerated concrete and cement based renders, mortars and bricks, prime surface using Sika® Primer-3 N applied by brush.

Before bonding / sealing, allow a waiting time of > 30 minutes (< 8 hours).

Note: Primers and activators are adhesion promoters and not an alternative to improve poor preparation / cleaning of the joint surface. Primers also improve the long term adhesion performance of the sealed joint. Contact Sika Technical Services for additional information.

APPLICATION METHOD / TOOLS

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Bonding Procedure

Application

After the necessary substrate preparation, prepare the end of the cartridge / foil pack before or after inserting into the sealant gun then fit the nozzle.

Apply in triangular beads, strips or spots at intervals of a few centimetres each. Use hand pressure only to fix the components to be bonded into position before skinning of the adhesive occurs. Incorrectly positioned components can easily be unbonded and repositioned during the first few minutes after application. If necessary, use temporary adhesive tapes, wedges, or supports to hold the assembled components together during the initial curing time.

Fresh, uncured adhesive remaining on the surface must be removed immediately. Final strength will be reached after complete curing of Sikaflex®-11 FC+, i.e. after 24 to 48 hours at +23°C, depending on the environmental conditions and adhesive layer thickness.

Sealing Procedure

Masking

It is recommended to use masking tape where neat or exact joint lines are required. Remove the tape within the skin time after finishing.

Joint Backing

After the required substrate preparation, insert a suitable backing rod to the required depth.

Priming

Prime the joint surfaces as recommended in substrate preparation. Avoid excessive application of primer to avoid causing puddles at the base of the joint.

Application

Prepare the end of the cartridge / foil pack before or after inserting into the sealant gun then fit the nozzle. Extrude Sikaflex®-11 FC+ into the joint ensuring that it comes into full contact with the sides of the joint and avoiding any air entrapment.

Finishing

As soon as possible after application, sealant must be firmly tooled against the joint sides to ensure adequate adhesion and a smooth finish.

Use a compatible tooling agent (e.g. Sika® Tooling Agent N) to smooth the joint surface. Do not use tooling products containing solvents.

CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Remover-208 immediately after use. Once cured, hardened material can only be removed mechanically. For cleaning skin use Sika® Cleaning Wipes-100.

LOCAL RESTRICTIONS

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

Product Data Sheet

Sikaflex®-11 FC+

March 2026, Version 03.01

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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 can always refer to the most recent version of the local Product Data Sheet for the relevant product, available on our website. The information in any downloaded version is valid as of the time of download.

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