

Product

One-component polyurethane sealant with good chemical and mechanical resistances: cures very quickly under the influence of humidity, has a high adhesive strength and is relatively hard.

Application examples

For joints

- joints in construction
- joints in floors and rooms which are intensely frequented but which are not subject to mechanical or point loads

For bonding

- flexible bonding resistant to shocks or vibrations
- gluing of all kinds of elements: plinths, stair noses, joint coverings, tiling, fixing supports, power lines (made of wood or plastic), connection flaps, etc.
- in the case of anti-vibration fastening systems with limited dimensions; fixing of air ducts, etc.
- in the case of adhesives subject to pronounced differential expansion
- gluing of slates

For insulation

- filling between carpentry and structural work
- sound insulation of pipes between concrete and tubes
- padding between walls
- connection of various elements in the finishing

Colours

White, concrete grey, brown, black, beige

Packaging

Cartridges of 300 ml (grey also in 600 ml sausages)

Advantages/Properties

Sikaflex-11FC+ cures under the influence of air humidity, which converts the paste-like product into a material:

- ✓ with excellent adhesive properties
- ✓ that remains flexible at all times
- ✓ that doesn't sag
- ✓ that does not shrink
- ✓ that is not affected by corrosion
- ✓ which has excellent resistance to ageing and adverse weather conditions
- ✓ which cures to 2 mm after 24 hours (65%R.H./+20°C)
- ✓ which is dust-free after 2 hours (at 65% R.H. and +20°C)



Technical properties

Property	Value + unit
Density (DIN 53 479-B)	± 1,3 kg/l
Skin formation (+23°C / 50% R.H.)	± 70 minutes
Curing time (+23°C / 50% R.H.)	± 3,5 mm / 24h
Stability (DIN EN ISO 7390)	0 mm, very good
Service temperature	-40°C to +80°C
Application temperature	+5°C to +40°C
Tensile strength (DIN 53 504)	± 1,5 N/mm ²
Tear resistance (DIN 53 515)	± 8 N/mm ²
Shorehardness A (DIN 53 505) (+23°C / 50% R.H.)	± 37 after 28 days
E-modulus (DIN EN ISO 8340) (+23°C / 50% R.H.)	± 0,6 N/mm ² after 28 days
Elongation at break (DIN 53 504) (+23°C / 50% R.H.)	± 700 % after 28 days
Recovery capacity (DIN EN ISO 7389 B) (+23°C / 50% R.H.)	>80 % after 28 days
Values for <ul style="list-style-type: none"> • LEED® EQc4.1 • SCAQMD ;1168 • BAAQMD ;8 ;51 	passed passed passed
Certificates	EMICODE EC1 PLUS ISEGA Certificate for foodstuff area usage
Shelf life	15 months after production date
Storage	in the original, unopened packaging, dry and protected from direct sunlight, at temperatures between +10°C and +25°C

SIKAFLEX 11 FC+

Underwater joints

Sikaflex-11 FC+ preserves all its properties even when the joints are permanently or temporarily submerged (during frequent washes, etc...). In this case, we recommend using a primer. Sikaflex-11 FC+ is applied after drying of the primer. The joints thus applied may only be immersed after full polymerisation of the joint sealant, i.e. after 28 days at 20°C and 65% R.H.

Sikaflex-11FC+ is not suitable for swimming pool joints!

Chemical resistance

Sikaflex-11 FC+ is resistant to fresh, salt and lime water as well as most cleaning agents that are diluted with an aqueous solution.

Sikaflex-11 FC+ is resistant to hydrocarbons, weak acids, diluted alkali and mineral oils for a certain period of time.

Sikaflex-11 FC+ is not resistant to solvents, bases or strong mineral acids.

Consumption

Bonding

Approximately 0.2 kg to 0.6 kg/m² (bonding by studs or caterpillars).

Join

See general technical data sheet "Elastomeric sealants" (12.02).

Contacts to avoid

Like all elastomers, Sikaflex-11 FC+ can discolour on contact with certain materials, such as black artificial or natural rubber, neoprene adhesives, flexible PVC and solvent-lubricated paints.

The product should therefore be kept clearly separated from these materials by means of a dorsal padding with appropriate dimensions. Sikaflex-11 FC+ must not come into contact with bitumen or asphalt.

Version

Processing

As soon as Sikaflex-11 FC+ polymerizes, it becomes a flexible, airtight material. It therefore allows the empty spaces between tubes and pipes to be filled completely.

Cleaning tools

With fire alcohol or with Sikadur Cleaner.

Reminder

Sikaflex-11 FC+ is not suitable for pool joints!

For porous and questionable materials, consult us regarding the application of any primers.

Our products must be carefully stored, applied and handled.

Safety regulations

Contains isocyanates. Avoid any contact with skin and eyes. If contact does occur, rinse thoroughly with water.

Storage

In original, unopened packaging at a temperature below 30°C.

General information

The information contained in this document is provided in good faith and is believed to be correct. However, we have no influence on the conditions in which these products are used or the methods by which they are used. Therefore, this information is not a substitute for tests which the customer must perform himself/herself in order to ensure that the products are safe, effective and achieve the intended purposes. Suggestions regarding the use of the product must not be used as grounds for infringement of any patent whatsoever. The only guarantee Castelein Sealants offers is that this product complies with the Castelein Sealants terms and conditions of sale in force at the time of shipment. Your only remedy in the event of a breach of this guarantee is the refund of the purchase price or the replacement of the product that does not comply with the guarantee.

Technical data of supplier: 01 2014

The producer reserves the right to make changes. 2020 04 01