



PRODUCT DATA SHEET

Sikaflex®-175 FC PU

Fast curing, 1-part polyurethane based joint sealant

DESCRIPTION

Sikaflex®175 FC PU is a one-component, moisture curing, elastic polyurethane based sealant. It has good adhesion to iron, aluminium, stainless steel, lead, copper, ceramic, glass, wood and many plastic surfaces.

USES

- Manufacturing of cars, containers, caravans etc.
- Sealing and bonding of ventilation ducts, gutters and spouts etc.
- As a sealant at the joints of rainwater collection pipes and rain gutters on roofs
- Sealing of sheet metal edges
- For vibration reduction in all type of sheet metal assembly works
- Sealing against water, air, gas and dust.

FEATURES

- Permanently flexible
- Non-sag
- Movement capability $\pm 25\%$
- Easy to gun, can be easily smoothed
- Over-paintable

CERTIFICATES AND TEST REPORTS

- CE marking and declaration of performance based on EN 15651-1 Sealants for facade elements: F-EXT-INT
- CE marking and declaration of performance based on EN 15651-4 Sealants for non-structural use in joints in buildings and pedestrian walkways: PW-INT

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PRODUCT INFORMATION

Composition	Polyurethane
Packaging	330 g cartridge (12 pcs/box) 700 g foil pack (12 pcs/ box)
Colour	White, black, grey
Shelf life	12 months if stored properly in its original package.
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +25 °C. Always refer to packaging.
Density	1,18± 0,03 g/ml

TECHNICAL INFORMATION

Shore A hardness	35-40 (After 28 days)
Tensile strength	1,6 N/mm ²
Service temperature	-40°C ile +90°C
Joint design	The width of the joints where Sikaflex® 175 FC PU will be used should be between 10 mm and 30 mm and the depth between 8 mm and 15 mm. Please refer to the consumption table for joint depths depth/width:1/2. Movements in the joints should not exceed ± 25% of the joint width. Contact Sika Technical Services for additional information.
Elongation at break	Min. 350%

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.

LIMITATIONS OF USE

- Sikaflex®175 FC PU should not be applied at tempe-

ratures below +5°C and above +40°C.

- Minimum joint width should be 5 mm, maximum 35 mm. Joint width:depth ratio should be 2:1.
- In exterior surface applications, joints should be protected from rain and water for the first 48 hours.
- Working and reaction times of polyurethane based systems are affected by ambient and ground temperature and relative humidity in the air. At low temperatures the chemical reaction slows down, extending pan life and working time. High temperatures incre-

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ase the viscosity, accelerate the chemical reaction and the above mentioned times are shortened accordingly.

- The ambient and ground temperature must not fall below the minimum permissible temperature for the material to complete curing.
- It must not come into contact with bitumen.
- Sikaflex®175 FC PU can be painted with conventional paint systems. Preliminary trial tests should be carried out to determine the suitability of the paint and the best result should be achieved to allow the joint sealant to cure completely. Inflexible paint systems may inhibit the elasticity of the joint sealant and cause cracks in the paint film.

FURTHER DOCUMENTATION

Safety Data Sheet

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

Joint surfaces must be dry, clean and free of all contaminations. Glass, metal and other non-porous surfaces must be free of ant coatings an wiped clean with solvent.

MIXING

1-part, ready to use

APPLICATION METHOD / TOOLS

The cartridge tip is cut off and the cannula with the mouth cut at a suitable angle is inserted into the cartridge tip. The aluminium cover under the cartridge is opened. The cartridge placed in the gun is applied in such a way that no air is released. After the joint is completely filled, the sealant surface is levelled with a spatula or finger moistened with soapy water. Application temperature is between +5°C and +40°C.

APPLICATION

Sikaflex®175 FC PU sealant is inserted into a mouth-filling aluminium sealant gun, the tip is cut off and the sealant gun with nozzle is ready for use. Then Sikaflex®175 FC PU sealant should be filled into the inner right and left inner surfaces of the joint where polyethylene wick is placed, starting from the surface of the wick, then into the remaining middle part of the joint. Following this process in three stages, the filled joint surface should be levelled with a joint spatula and the surface should be finalised. Then the masking tapes should be removed from the surface without disturbing the shape of the joint.

CLEANING OF EQUIPMENT

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

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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.

APPLICATION INFORMATION

Consumption	Joint Width	Joint Depth	Joint Length / 600 mL
	15 mm	8 mm	5 meters
	20 mm	10 mm	3 meters
	25 mm	12 mm	2 meters
	30 mm	15 mm	1.3 meters
	35 mm	15 mm	1.1 meters

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Sagging 0 mm (EN ISO 7390)

Curing rate Min. 3 mm/day (23°C and 50% R.H).

Skinning time 40 ± 10 min. (23°C and 50% R.H)

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