

BUILDING TRUST

PRODUCT DATA SHEET

Sikaflex[®]-235

Sealant with specific chemical resistance

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base			Polyurethane
Color (CQP001-1)			Black
Cure mechanism			Moisture-curing
Density (uncured)			1.2 kg/l
Application temperature	p	product, ambient	15 – 35 °C
Skin time (CQP019-1)			60 minutes ^A
Curing speed (CQP049-1)			(see diagram)
Shrinkage (CQP014-1)			1%
Shore A hardness (CQP023-1 / ISO 48-4)			40
Tensile strength (CQP036-1 / ISO 527)			2.0 MPa
Elongation at break (CQP036-1 / ISO 527)			700 %
Tear propagation resistance (CQP045-1 / ISO 34)			8 N/mm
Tensile lap-shear strength (CQP046-1 / ISO 4587)			1.5 MPa
Service temperature (CQP513-1)			-40 – 90 °C
		4 hours	120 °C
		1 hour	140 °C
Shelf life			12 months ^B
CQP = Corporate Quality Procedure	^{A)} 23 °C / 50 % r.h.		^{B)} stored below 25 °C

CQP = Corporate Quality Procedure

DESCRIPTION

Sikaflex®-235 is a 1-component polyurethane

sealant of paste-like consistency that cures on

It is designed for general sealing applications.

exposure to atmospheric moisture.

PRODUCT BENEFITS

- Easy application Good ageing resistant
 - Short cut-off string
- Very low VOC content

B) stored below 25 °C

AREAS OF APPLICATION

Sikaflex®-235 is a multipurpose joint sealant for different plastics (e.g. PBT, PA), where temporary resistance against fluids (e.g. fuels, mineral oils) is required. Any specific resistance has been tested and approved by the customer.

Seek manufacturer's advice and perform tests on original substrates before using Sikaflex®-235 on materials prone to stress cracking.

This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed ensuring adhesion and material compatibility.

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CURE MECHANISM

Sikaflex[®]-235 cures by reaction with atmospheric moisture. At low temperatures the water content of the air is generally lower and the curing reaction proceeds somewhat slower (see diagram 1).



Diagram1: Curing speed Sikaflex®-235

METHOD OF APPLICATION

Surface preparation

Surfaces must be clean, dry and free from grease, oil, dust and contaminants.

Surface treatment depends on the specific nature of the substrates and is crucial for a long lasting bond. All pre-treatment steps must be confirmed by preliminary tests on original substrates considering specific conditions in the assembly process.

Application

Sikaflex[®]-235 can be processed between 15 °C and 35 °C (product and ambient) but changes in reactivity and application properties have to be considered. The temperature for substrate need to be at least 3 °C above the dew point. To ensure a uniform thickness of the bondline it is recommend to apply the adhesive in form of a triangualar bead (see figure 1).



Figure 1: Recommended bead configuration

Consider: The skin time is significantly shorter in hot and humid climate.

Sikaflex[®]-235 is processed with pump equipment. For advice on selecting and setting up a suitable pump system, contact the System Engineering Department of Sika Industry.

Tooling and finishing

Tooling and finishing must be carried out within the skin time of the product. It is recommended using Sika[®] Tooling Agent N. Other finishing agents must be tested for suitability and compatibility prior the use.

Removal

Uncured Sikaflex[®]-235 may be removed from tools and equipment with Sika[®] Remover-208 or another suitable solvent. Once cured, the material can only be removed mechanically. Hands and exposed skin have to be washed immediately using hand wipes such as Sika[®] Cleaner-350H or a suitable industrial hand cleaner and water.

Do not use solvents on skin.

FURTHER INFORMATION

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.

Copies of the following publications are available on request:

- Safety Data SheetsGeneral Guideline
- Bonding and Sealing with 1-component Sikaflex[®]



BASIS OF PRODUCT DATA

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

HEALTH AND SAFETY INFORMATION

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

DISCLAIMER

The information, and, in particular, the recommendations relating to the application and enduse 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.

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