

PRODUCT DATA SHEET

Sikasil® AS-182

Non-corrosive Structural Glazing Silicone Adhesive

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base	1-component silicone	
Color (CQP001-1)	White	
Cure mechanism	Moisture-curing	
Cure type	Dealcoholization	
Density (uncured)	1.02 kg/l	
Non-sag properties (CQP061-4 / ISO 7390)	Good	
Application temperature	ambient	5 - 40 °C
Skin time (CQP019-1)	5 minutes ^A	
Curing speed (CQP049-1)	(see diagram)	
Shore A hardness (CQP023-1 / ISO 48-4)	42	
Tensile strength (CQP036-1 / ISO 527)	1.4 MPa	
Elongation at break (CQP036-1 / ISO 527)	420 %	
Tensile lap-shear strength (CQP046-1 / ISO 4587)	0.9 MPa	
Thermal resistance (CQP 513-1)	4 h	100 °C
	1 h	120 °C
Service temperature	-40 - 120 °C	
Shelf life	6 months ^B	

CQP = Corporate Quality Procedure

^A) 23 °C / 50 % r. h.^B) stored (unopened) in a dry place at ≤ 25 °C
DESCRIPTION

Sikasil® AS-182 is a 1-component, non-corrosive structural glazing silicone adhesive with good adhesion to a wide range of substrates. It is particularly suitable for the white goods industry.

PRODUCT BENEFITS

- Adheres well to many substrates
- Good mechanical properties
- Maintain stable performance in a wide temperature range
- ROHS, REACH, FDA certification

AREAS OF APPLICATION

Sikasil® AS-182 is used for sealing and bonding applications with severe industrial requirements. It adheres well to many substrates including metals (especially aluminum), glass, metal primers, coatings, colored glaze materials, plastics and wood.

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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Version 01.01 (06 - 2024), en_IN

012603101820001000

CURE MECHANISM

Sikasil® AS-182 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).

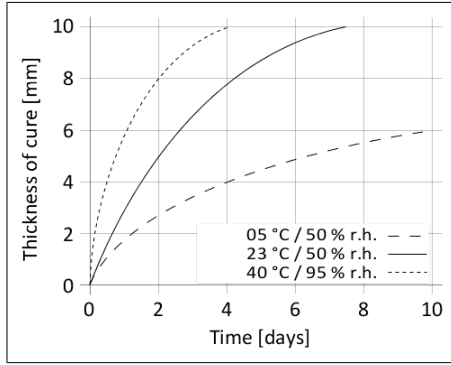


Diagram 1: Curing speed Sikasil® AS-182

METHOD OF APPLICATION

Surface preparation

Surfaces must be clean, dry and free from grease, oil and dust. Surface treatment depends on the specific nature of the substrates and is crucial for a long lasting bond.

Application

The optimum temperature for substrate and sealant is between 15 °C and 25 °C.

Sikasil® AS-182 can be processed with manual, pneumatic or electric driven piston guns as well as pump equipment. For advice on selecting and setting up a suitable pump system, contact the System Engineering Department of Sika Industry.

Joints must be properly dimensioned.

Joints deeper than 15 mm must be avoided.

Tooling and finishing

Tooling and finishing must be carried out within the skin time of the sealant or adhesive. When tooling freshly applied Sikasil® AS-182 press the adhesive to the joint flanks to get a good wetting of the bonding surface. No tooling agents to be used.

Removal

Uncured Sikasil® AS-182 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 Sheets
- General Guideline
Structural Silicone Glazing with Sikasil® Adhesives

PACKAGING INFORMATION

Cartridge	300 ml 2.5 l
Pail	18 kg
Drum	190 kg

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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