



PRODUCT DATA SHEET

Sikasil® GP-101

General purpose acetoxy cure silicone sealant

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base	1-component silicone
Colour (CQP001-1)	Almond, aluminum, black, bone, translucent, transwhite, white
Cure mechanism	Moisture-curing
Cure type	Acetoxy
Density (uncured)	translucent 0.98 kg/l colors 1.02 kg/l
Application temperature	5 – 40 °C
Skin time (CQP019-1)	15 minutes ^A
Shore A hardness (CQP023-1 / ISO 48-4)	20
Tensile strength (ASTM D412)	1.1 MPa
Elongation at break (ASTM D412)	400 %
Service temperature	-40 – 180 °C
Shelf life	24 months ^B

CQP = Corporate Quality Procedure

^{A)} 23 °C (73 °F) / 50 % r.h.

^{B)} Stored below 25 °C (77 °F)

DESCRIPTION

Sikasil® GP-101 is a general purpose, one-component, non-sag, elastomeric, room-temperature vulcanizing (RTV) acetoxy silicone sealant with good adhesion characteristics for general sealing and bonding applications.

PRODUCT BENEFITS

- Listed under NSF/ANSI 51 - Food Equipment Materials (dependent on color)
- Joint movement accomodation ±25 % per ISO 11600
- Superior UV and heat resistance
- Very good gunning & tooling
- Solvent free

AREAS OF APPLICATION

Sikasil® GP-101 can be used for food equipment and appliance assembly. Other areas of application include general sealing of windows, HVAC, trucks, trailers, and RVs. This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.

CURE MECHANISM

Sikasil® GP-101 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).

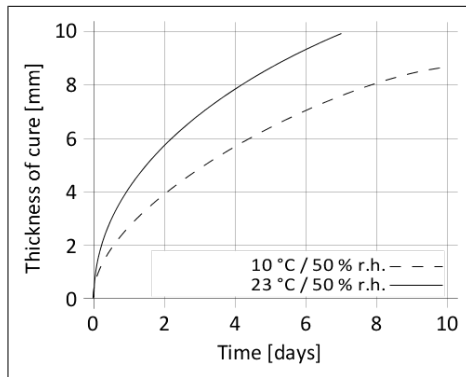


Diagram 1: Curing speed Sikasil® GP-101

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® GP-101 can be processed with hand, pneumatic or electric driven piston guns. 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® GP-101 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® GP-101 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.

Overpainting

Sikasil® GP-101 cannot be overpainted.

Application Limits

- Sikasil® GP-101 is not suitable for submersible applications.
- Sikasil® GP-101 should not be used on substrates such as marble, concrete, fibrous cement and mortars due to acetic acid.
- Due to staining, Sikasil® GP-101 is not recommended for use on natural stone such as marble, granite, quartzite, etc.
- Sikasil® GP-101 may become discolored if in contact with some organic elastomers such as EPDM, APTK and neoprene.
- Due to corrosion, Sikasil® GP-101 should not be used in contact with metals such as lead, copper, brass or zinc.
- Sikasil® GP-101 is not recommended for structural glazing or use in an aquarium.

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

PACKAGING INFORMATION

Cartridge	295 ml
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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

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.

DISCLAIMER

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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

PRODUCT DATA SHEET

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