

PRODUCT DATA SHEET

Sikasil® SG-20

High-strength, 1-component silicone structural glazing adhesive, CE-marked

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

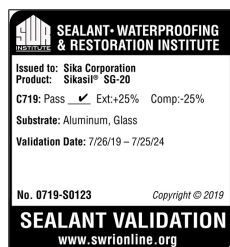
Chemical base	1-component silicone
Color (CQP001-1)	Black, grey S6, white S3
Cure mechanism	Moisture-curing
Cure type	Neutral
Density (uncured)	1.36 kg/l
Non-sag properties (CQP061-4 / ISO 7390)	Very good
Application temperature	ambient 5 – 40 °C
Skin time (CQP019-1)	25 minutes ^A
Tack free time (CQP019-3)	180 minutes ^A
Curing speed (CQP049-1)	(see diagram)
Shore A hardness (CQP023-1 / ISO 48-4)	39
Tensile strength (CQP036-1 / ISO 527)	2.2 MPa
100 % modulus (CQP036-1 / ISO 527)	0.9 MPa
Elongation at break (CQP036-1 / ISO 527)	450 %
Tear propagation resistance (CQP045-1 / ISO 34)	7 N/mm
Service temperature	-40 – 150 °C
Shelf life (CQP016-1)	9 months ^B

CQP = Corporate Quality Procedure

^A) 23 °C / 50 % r. h.^B) stored below 25 °C

DESCRIPTION

Sikasil® SG-20 is a 1-component, neutral-curing structural glazing silicone adhesive, which combines mechanical strength with high elongation. It adheres excellent to a wide range of substrates.



PRODUCT BENEFITS

- UV and weathering resistance
- SNJF-VEC recognized (product code: 2436)
- Fire rated class B1 (DIN 4102-1)
- Meets requirements for the use as bonding sealant according to EAD 090010-00-0404, EN 15434 and as structural sealant according to ASTM C1184, ASTM C920 for Type S, Grade NS, Class 25 (movement capability \pm 25 %)
- ETA-06/0090 issued by Technical Assessment Body Centre Scientifique et Technique du Bâtiment
- CE marked, surveillance by notified body: 0757
- Declaration of Performance available
- Design tensile strength for dynamic loads: σ_{des} = 0.17 MPa (ETA-06/0090)
- Contributes to LEED v4/v4.1 EQc 2: Low-Emitting Materials
- Complies with common VOC requirements: Indoor Air Comfort GOLD: pass, EMICODE: EC1 Plus, French VOC Regulation: A+, BREEAM International (v.6 2021)/BREEAM NOR (v.6 2022): Exemplary Level, M1: pass, Global LEED v4/v4.1 beta EQc 2: Low-Emitting Materials: CDPH-IAQ SCAQMDRule1168

AREAS OF APPLICATION

Sikasil® SG-20 is ideal for structural glazing and other bonding applications where high mechanical performance with silicone is required.

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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Sikasil® SG-20
Version 11.01 (09 - 2025), en_DK
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CURE MECHANISM

Sikasil® SG-20 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).

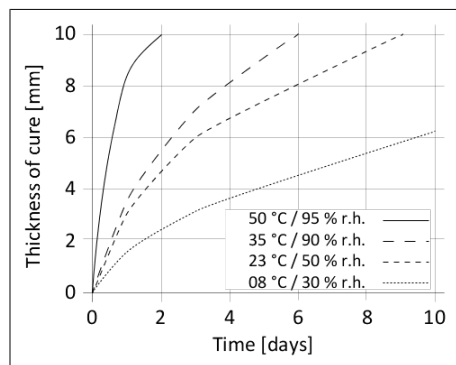


Diagram 1: Curing speed Sikasil® SG-20

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® SG-20 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.

Basis for calculation of the necessary joint dimensions are the technical values of the adhesive and the adjacent building materials, the exposure of the building elements, their construction and size as well as external loads.

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® SG-20 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® SG-20 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® SG-20 cannot be overpainted.

Application limits

Recommended solutions from Sika for structural glazing and window bonding are usually compatible to each other. These solutions consist of products such as Sikasil® SG, IG, WS and WT series.

For specific information regarding compatibility between various Sikasil® products and other Sika products contact the Technical Department of Sika Industry.

To exclude materials influencing Sikasil® SG-20, all materials such as gaskets, tapes, setting blocks, sealants, etc., in direct and indirect contact have to be approved by Sika in advance.

Where two or more different reactive sealants are used, allow the first to cure completely before applying the next one.

The above mentioned Sika process materials may only be used in structural glazing or window bonding applications after a detailed examination and written approval of the corresponding project details by Sika Industry.

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® SG Adhesives

PACKAGING INFORMATION

Cartridge	300 ml
Unipack	600 ml
Pail	25 kg
Drum	250 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

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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