BUILDING TRUST

PRODUCT DATA SHEET

Sikasil® WS-200

Silicone weatherproofing sealant, CE-marked

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base		1-component silicone
Color (CQP001-1)		Transparent
Cure mechanism		Moisture-curing
Cure type		Neutral
Density (uncured)		1.03 kg/l
Non-sag properties (CQP061-4 / ISO 7390)		Good
Application temperature	ambient	5 – 40 °C
Skin time (CQP019-1)		8 minutes [A]
Tack free time (CQP019-3)		120 minutes [A]
Curing speed (CQP049-1)		(see diagram)
Shore A hardness (CQP023-1 / ISO 48-4)		20 [B]
Tensile strength (CQP036-1 / ISO 527)		1.0 MPa
100 % modulus (CQP036-1 / ISO 527)		0.3 MPa
Elongation at break (CQP036-1 / ISO 527)		400 %
Tear propagation resistance (CQP045-1 / ISO 34)		2.0 N/mm
Service temperature		-40 – 150 °C
Shelf life (CQP016-1)		12 months [C]

CQP = Corporate Quality Procedure
[A] 23 °C / 50 % r. h.
[B] after 28 days
[C] storage below 25 °C

DESCRIPTION

Sikasil® WS-200 is a durable, transparent moisture curing alkoxy silicone sealant with an excellent adhesion to a wide range of substrates. It is particularly suited as a sealant for shop fronts, glass partition walls and other applications.

PRODUCT BENEFITS

- UV and weathering resistante
- Adheres well to glass, metals, coated / painted metals, plastics and wood
- Meets requirements of ISO 11600 F 25 LM & G 25 LM, EN 15651-1 F EXT-INT 25LM, EN 15651-2 G CC 25LM, AENOR Marca N F+G 25 LM, ASTM C920 for Type S, Grade NS, Class 25 (movement capability ± 25 %)
- Provided with CE-mark according to EN 15651-1:2012, F EXT-INT 25LM, EN 15651-2:2012, G CC 25LM
- SNJF Façade & Vitrage 25 E (product code: 4198, 4195) - reference document and information relating to the SNJF Label brand available at www.oc-sfjf.fr

AREAS OF APPLICATION

Sikasil® WS-200 can be used for weatherproofing and sealing applications where durability under severe conditions is required.
It is particularly suited as a sealant for shop fronts, glass partition walls and other applications.
This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed ensuring adhesion and material compatibility.

CURE MECHANISM

Sikasil® WS-200 cures by reaction with atmospheric moisture. At low temperatures the water content of the air is generally lower and the curing reaction proceeds some-what slower (see diagram 1).
The curing speed of the reaction depends mainly on the relative humidity and temperature. Material temperature above 50 °C could lead to bubble formation and has to be avoided.

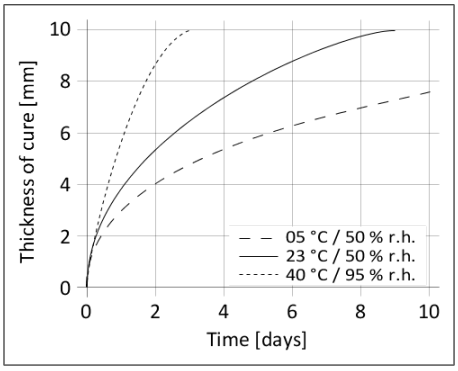

Diagram1: Curing speed Sikasil® WS-200

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® WS-200 can be processed with hand, 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.
For optimum performance the joint width needs to be designed according to the movement capability of the sealant based on the actual expected movement. The minimum joint depth is 6 mm and a width / depth ratio of minimum 2 : 1 and maximum 4 : 1 must be respected. Joints deeper than 15 mm must be avoided.
For backfilling it is recommended to use closed cell, sealant compatible foam backer rods e.g. high resilience polyethylene foam rod. If joints are too shallow for backing material to be employed, we recommend using a polyethylene tape. This acts as a release film (bond breaker), allowing the joint to move and the silicone to stretch freely.

Tooling and finishing

Tooling and finishing must be carried out within the skin time of the sealant or adhesive.
When tooling freshly applied Sikasil® WS-200, press the adhesive to the joint flanks to get a good wetting of the bonding surface. No tooling agents must be used.

Removal

Uncured Sikasil® WS-200 can 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 cleaning towels or a suitable industrial hand cleaner and water. Do not use solvents on skin.

Overpainting

Sikasil® WS-200 cannot be overpainted.

Application limits

Most Sikasil® WS, SG, IG and WT, silicones manufactured by Sika are compatible with each other. For specific information regarding compatibility between various Sikasil® products contact the Technical Department of Sika Industry.
To exclude materials influencing Sikasil® WS-200, 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. Sikasil® WS-200 may only be used in combination with structural glazing applications after a detailed examination of the corresponding project details.
Do not use Sikasil® WS-200 on PMMA and PC elements as it may cause environmental stress cracking (crazing).

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
  Sikasil® Weather Sealants

PACKAGING INFORMATION

Cartridge	300 ml
Unipack	400 ml 600 ml

Please contact our customer service, for information of what packaging sizes are sold in Denmark.

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.

Sika Danmark A/S
Hirsemarken 5
3520 Farum
Tlf. +45 48 18 85 85
www.sika.dk