

BUILDING TRUST

PRODUCT DATA SHFFT

Sikasil® WS-605 S

High-performance, non-streaking silicone weatherproofing sealant, CE-marked

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base	1-component silicone
Color (CQP001-1)	Various colors available ^A
Cure mechanism	Moisture-curing
Cure type	Neutral
Density (uncured)	1.43 kg/l
Non-sag properties (CQP061-4 / ISO 7390)	Good
Application temperature ambient	5 – 40 °C (41 – 104 °F)
Skin time (CQP019-1)	25 minutes ^B
Tack free time (CQP019-3)	120 minutes ^B
Curing speed (CQP049-1)	(see diagram)
Shore A hardness (CQP023-1 / ISO 48-4)	30 ^c
Tensile strength (CQP036-1 / ISO 527)	1.0 MPa (140 psi)
100 % modulus (CQP036-1 / ISO 527)	0.3 MPa (45 psi)
Elongation at break (CQP036-1 / ISO 527)	800 %
Tear propagation resistance (CQP045-1 / ISO 34)	4.0 N/mm (25 pli)
Service temperature	-40 – 150 °C (-40 – 302 °F)
Shelf life (CQP016-1)	12 months ^D

CQP = Corporate Quality Procedure

DESCRIPTION

Sikasil® WS-605 S is a durable, neutral-curing silicone sealant with a high movement capability and excellent adhesion to a wide range of substrates. Non-streaking properties on nonporous substrates and non-staining properties on porous substrates. It is particularly suited as a weather seal for structural glazing, curtain walling and windows.

PRODUCT BENEFITS

- Non-streaking on non-porous substrates
- Non-staining properties on porous substrates
- Outstanding UV and weathering resistance
- Adheres well to glass, metals, coated / painted metals, plastics and wood

- A) color defined by local sales organization
- D) storage below 25 °C (77 °F)
 - Meets requirements of ISO 11600 F 25 LM & AREAS OF APPLICATION G 25 LM, EN 15651-1 F EXT-INT CC 25LM, EN Sikasil® WS-605 S can be used for weather-15651-2 G CC 25LM, ASTM C 920 for Type S, Grade NS, Class 50 (movement capability ± 50 %), ASTM C 1248, AENOR Marca N F+G 25 LM
 - Provided with CE-mark according to EN 15651-1:2012, F EXT-INT CC 25LM, EN 15651-2:2012, G CC 25LM, certified by Control Body 1119
- SNJF Façade & Vitrage 25 E (product code: ility. 2885, 2891) for colors Black, Grey and White
- Complies with common VOC requirements: Indoor Air Comfort: 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 SCAQMD Rule 1168

B) 23 °C (73 °F) / 50 % r. h.

proofing and sealing applications where durability under severe conditions is required.

It is particularly suited as a weather seal for structural glazing, curtain walling and windows. This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed ensuring adhesion, non-staining and material compatib-



Version 10.01 (12 - 2024), en_US 012603206059001000



C) after 28 days

CURE MECHANISM

Sikasil® WS-605 S 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 (122 °F) could lead to bubble formation and has to be avoided.

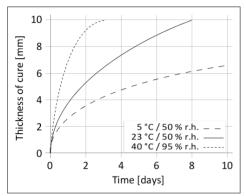


Diagram 1: Curing speed Sikasil® WS-605 S

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 (59 °F) and 25 °C (77 °F).

Sikasil® WS-605 S 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 ($^{1}/_{4}$ in.) and a width / depth ratio of minimum 2 : 1 and maximum 4 : 1 must be respected. Joints deeper than 15 mm ($^{5}/_{8}$ in.) 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-605 S, 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-605 S 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, cleaning towels, or a suitable industrial hand cleaner and water. Do not use solvents on skin.

Overpainting

Sikasil® WS-605 S 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-605 S, 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-605 S may only be used in combination with structural glazing applications after a detailed examination of the corresponding project details.

Do not use Sikasil® WS-605 S 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

Unipack	600 ml
---------	--------

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.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by contacting SIKA's Technical Service Department via email at tsmh@us.sika.com. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product. SIKA warrants this product for one year from

date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. NO OTHER WARRANTIES EX-PRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FIT-**NESS FOR A PARTICULAR PURPOSE. SIKA SHALL** NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at https://usa.sika.com/en/group/SikaCorp/termsandconditions.html or by calling +1 800-933-7452

PRODUCT DATA SHEET Sikasil® WS-605 S

Version 10.01 (12 - 2024), en_US 012603206059001000

Sika Corporation

30800 Stephenson Highway Madison Heights, MI 48071 U.S.A.

Telephone: +1 248-577-0020 Email: tsmh@us.sika.com www.sikausa.com

