

PRODUCT DATA SHEET

Sikasil® WS-395

Non-staining, neutral-curing silicone weatherproofing sealant

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base	1-component silicone
Color (CQP001-1)	White, Colonial White, Aluminum, Limestone, Black, Bronze, Medium Bronze, Custom
Cure mechanism	Moisture-curing
Cure type	Neutral
Density	1.14 kg/l
Non-sag properties (CQP061-4 / ISO 7390)	0 mm
Application temperature	Ambient 5 – 40 °C (41 – 104 °F)
Skin time (CQP019-1)	25 minutes ^A
Tack free time (CQP019-3)	50 minutes ^A
Curing speed (CQP049-1)	See diagram 1
Shore A hardness (CQP023-1 / ISO 48-4)	7 days cure at 23 °C (73 °F) / 50 % r.h. 25
Tensile strength (ASTM D412)	1.4 MPa (200 psi)
Elongation at break (ASTM D412)	700 %
Tear propagation resistance (CQP045-1 / ISO 34)	5 N/mm (30 pli)
Service temperature	-40 – 150 °C (-40 – 302 °F)
Shelf life	12 months ^B

CQP = Corporate Quality Procedure

^A) 23 °C (73 °F) / 50% r.h.^B) stored below 25 °C (77 °F)
DESCRIPTION

Sikasil® WS-395 is a neutral curing silicone sealant with high movement capability and adhesion to a wide range of substrates. It is particularly suited as a weather seal for sensitive porous stone and metal panel substrates to reduce residue rundown and substrate staining. Sikasil® WS-395 is also typically used for weathersealing curtain walls and glass butt joints or as a perimeter weather seal for windows, doors, and window walls. Further, the product properties of Sikasil® WS-395 are beneficial for field and shop applications related to rainscreen facades, prefabricated exterior wall systems and modular construction.

PRODUCT BENEFITS

- Meets the requirements of ASTM C920 Type S, Grade NS, Class 50, Use NT, M, G, A
- Non-staining acc. to ASTM C1248
- Meets the requirements of ASTM C1184, Type S, Use G
- Good UV and weathering resistance
- Adheres well to many substrates including concrete, natural stone, glass, metals, coated and painted metals, vinyl and wood

AREAS OF APPLICATION

Sikasil® WS-395 can be used for weatherproofing and sealing applications where durability under severe conditions 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.

PRODUCT DATA SHEET

Sikasil® WS-395

Version 02.01 (03 - 2023), en_US
012603203959001000

CURE MECHANISM

Sikasil® WS-395 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).

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.

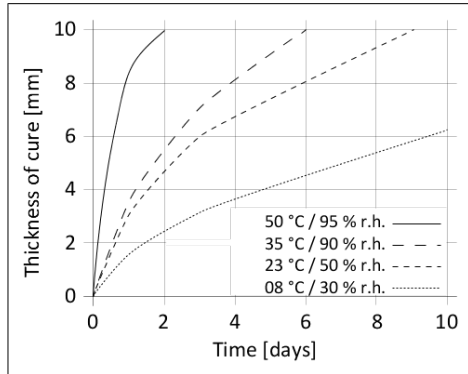


Diagram 1: Curing Speed of Sikasil® WS-395

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. Sikasil® WS-395 is designed to obtain adhesion without the use of a primer however, certain substrates may require a primer. Test by applying the sealant and/or primer sealant combination to confirm results and proposed application methods.

Application

The optimum temperature for substrate and sealant is between 15 °C and 25 °C (59 °F and 77 °F).

Sikasil® WS-395 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.

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 (9/16 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.

PRODUCT DATA SHEET

Sikasil® WS-395
Version 02.01 (03 - 2023), en_US
012603203959001000

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

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-395 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® WS-395 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 or a suitable industrial hand cleaner and water. Do not use solvents on skin.

Overpainting

Sikasil® WS-395 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-395, 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-395 may only be used in combination with structural glazing applications after a detailed examination of the corresponding project details.

Do not use Sikasil® WS-395 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	295 ml
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 EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS 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.

