

PRODUCT DATA SHEET

Sikasil® WS-295

Neutral cure, weather sealing silicone sealant

PRODUCT DESCRIPTION

Sikasil® WS-295 sealant is a one part, neutral cure for use in most common weatherproofing applications on a wide variety of materials. Meets the requirements of ASTM C920, Type S, Grade NS, Class 50, Use NT, M, G, A, O; TT-S-00230C, Type II, Class A; CAN/CGSB-19.13-M87

USES

Sikasil® WS-295 silicone sealant has been specifically designed:

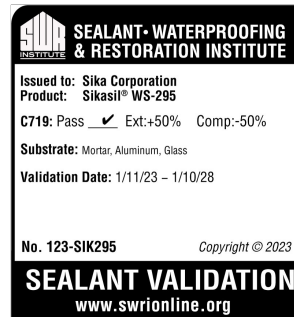
- As a weatherseal in conventional glazing, including cap, toe and heel beads.
- As a weatherseal in glass to glass butt joint glazing.
- Sealing expansion and control joints in precast concrete panels and metal curtain walls.
- Perimeter weathersealing of doors, windows and other building components.
- Adhering stiffeners to building panels.
- Excellent for use in unitized curtain wall systems.

CHARACTERISTICS / ADVANTAGES

- Versatile medium modulus
- Unaffected by most atmospheric conditions
- Excellent resistance to UV and Ozone exposure
- Non-staining to most porous substrates
- Joint movement $\pm 50\%$
- Excellent adhesion to most substrates and surfaces
- One-component, moisture-curing
- Excellent gunnability in all temperatures

APPROVALS / STANDARDS

- Meets the requirements of ASTM C920, Type S, Grade NS, Class 50, Use NT, M, G, A
- SWRI validated acc. to ASTM C719 (No. 123-SIK295)
- Tested acc. to ASTM C1248 for staining on porous substrates
- Meets the requirements of ASTM C1184
- Federal specification TT-S-00230C, Type II, Class A
- Canadian Standard CAN/CGSB 19.13-M87



PRODUCT INFORMATION

| | |
|---|--|
| Packaging | 10 fl.oz. (295 ml) cartridge, 20 fl.oz. (600 ml) sausage, 2 gal. pails (7.6 L) |
| Shelf Life | 12 months in original unopened containers |
| Storage Conditions | Store in unopened containers at temperatures lower than 80 °F (27 °C) |
| Color | White, Colonial White, Aluminum, Limestone, Black, Bronze, Medium Bronze, Custom |
| Volatile organic compound (VOC) content | 37 g/L |

TECHNICAL INFORMATION

| | | |
|--|---|---|
| Shore A Hardness | 25 | (7 days at 77 °F (25 °C) 50 % R.H.) (ASTM C-661) |
| Tensile Strength | 200 psi (1.38 MPa) | (7 days at 77 °F (25 °C) 50 % R.H.) (ASTM D-412) |
| Tensile stress at specified elongation | 55 psi (0.38 MPa) at 100 % | (7 days at 77 °F (25 °C) 50 % R.H.) (ASTM D-412) |
| Elongation at Break | 700 % | (7 days at 77 °F (25 °C) 50 % R.H.) (ASTM D-412) |
| Movement Capability | +/-50 % | (7 days at 77 °F (25 °C) 50 % R.H. at 100 %) (ASTM C-719) |
| Adhesion in peel | 30 pli on aluminium, glass and concrete | (7 days at 77 °F (25 °C) 50 % R.H.) (ASTM C-794) |
| Service Temperature | -80–350 °F (-62–177 °C) | |
| UV Exposure | Excellent | Ozone/UV Resistance (ASTM D-1149) |
| Color | Staining, Color Change | None (ASTM C-510) |
| | Staining on Porous Substrates | No staining (ASTM C-1248) |

APPLICATION INFORMATION

| Coverage | 10.0 oz (295 ml) Cartridge: Yield in Linear feet | | | |
|----------|--|------|------|------|
| | Width/Depth | 1/4" | 3/8" | 1/2" |
| | 1/4" | 24.1 | | |
| | 3/8" | 16.0 | 10.7 | |
| | 1/2" | 12.0 | 8.0 | 6.0 |
| | 3/4" | 8.0 | 5.3 | 4.0 |
| | 1" | | | 3.0 |
| | 1.25" | | | 2.4 |
| | 1.5" | | | 2.0 |
| | 20 oz (600 ml) Sausage: Yield in Linear feet | | | |
| | Width/Depth | 1/4" | 3/8" | 1/2" |
| | 1/4" | 48.1 | | |
| | 3/8" | 32.1 | 21.4 | |
| | 1/2" | 24.1 | 16.0 | 12.0 |
| | 3/4" | 16.0 | 10.7 | 8.0 |
| | 1" | | | 6.0 |
| | 1/25" | | | 4.8 |
| | 1/5" | | | 4.0 |

2 gallon (7.6 L) Pail: Yield in Linear feet

| Width/Depth | 1/4" | 3/8" | 1/2" |
|-------------|-------|-------|-------|
| 1/4" | 615.8 | | |
| 3/8" | 410.6 | 273.6 | |
| 1/2" | 307.8 | 205.2 | 154.0 |
| 3/4" | 205.2 | 136.8 | 102.6 |
| 1" | | | 77.0 |
| 1/25" | | | 61.6 |
| 1/5" | | | 51.4 |

| | | |
|---------------------|-----------------------------|--|
| Sag Flow | no sag | (77 °F (25 °C) 50 % R.H.) (ASTM C-639) |
| Cure Time | Tack Free Time | 50 min. (at 77 °F (25 °C) and 50 % R.H.) |
| | Cure Time | 7-14 days (ASTM C-679) |
| | Full Adhesion | 7-14 days |
| Tooling Time | Initial Skin: 20–30 minutes | (77 °F (25 °C) 50 % R.H.) |

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LIMITATIONS

- Not intended for structural sealant applications without mechanical retains.
- Do not allow sealant to come in contact with solvent during cure.
- Do not allow sealant to come in contact with curing polyurethane sealants during cure.
- Not intended for immersion.
- Sealant may be applied below freezing temperatures if substrates are completely dry, frost free and clean. Contact Technical Service for more information.
- Do not apply when substrate temperatures are below -20 °F (-29 °C) or above 130 °F (54 °C).
- Not recommended for horizontal vehicular traffic.
- Do not apply to surfaces that will be painted as sealant surface will not hold paint.
- Do not apply to substrates that bleed oil, plasticizers or solvent.
- Do not apply to damp or wet substrates.
- Lower temperature and humidity will extend tack free and cure rates.
- Allow treated wood to age six months before application.
- Brass and copper may be discolored. Test apply prior to application.
- Test sensitive substrates, such as mirror backings, for compatibility before use.
- Do not use open cell rod in horizontal on grade joint or with E.I.F.S.

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.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The substrate must be clean, dry, frost free, sound and free of any oils, greases or incompatible sealers, paints or coatings that may interfere with adhesion.

POROUS SUBSTRATES – clean by mechanical methods to expose a sound surface free of contamination and laitance.

NON-POROUS SUBSTRATES – for cleaning non-porous substrates, use two rag wipe method using xylene or an approved commercial solvent. Allow solvent to evaporate prior to sealant application.

Priming

Sikasil® WS-295 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. Refer to Technical Data Sheet for primers Sikasil® Primer-2100 and contact Technical Service for additional information.

APPLICATION METHOD / TOOLS

The depth of the sealant should be 1/2 the width of the joint. The maximum depth is 1/2 in. (13 mm) and the minimum is 1/4 in. (6 mm). To control joint depth, use closed cell polyethylene, non-gassing polyolefin or open cell polyurethane backer rod. If joint depth does not allow for backer rod, use polyethylene bond breaker tape to prevent three-sided adhesion. Closed cell backer rod should be 25 % larger than joint width; do not compress more than 40 %. Open cell should be compressed 40 %. Do not use open cell rod in horizontal on grade joints or with E.I.F.S.

Sikasil® WS-295 is ready to use, apply using professional caulking gun. Do not open product container until preparation work has been completed. Apply sealant using consistent, positive pressure to force sealant into the joint. Tool sealant to create a concave joint shape and maximum adhesion. Dry tooling is recommended. DO NOT use soapy water or other liquids when tooling.

Removal

Use xylene, denatured alcohol or mineral spirits to remove uncured sealant from substrate and equipment. Follow solvent manufacturer's instructions for use and warnings. Cured material can only be removed mechanically.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

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 calling SIKA's Technical Service Department at 1-800-933-7452. 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

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Product Data Sheet

Sikasil® WS-295
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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.**

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