

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 C-920, Type S, Grade NS, Class 50, Use NT, M, G, A, O; TT-S-00230C, Type II, Class A; CAN/CGSB-19.13-M87, AAMA 802.3 Type II, AAMA 803.3, AAMA 805.2, AAMA 808.3

USES

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

- As a weatherseal in both conventional glazing and structural glazing applications, 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 sealing 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
- Joint movement $\pm 50\%$
- Excellent adhesion
- One-component
- Excellent gunnability in all temperatures

APPROVALS / STANDARDS

- Meets the requirements of ASTM C1184 for structural silicone sealants



PRODUCT INFORMATION

Packaging	10 fl.oz. (295 ml) cartridge, 20 fl.oz. (600 ml) sausage, 2 gal. pails (7.57 L)
Color	White, Colonial White, Aluminum, Limestone, Black, Bronze, Medium Bronze, Custom

Shelf Life	12 months in original unopened containers
Storage Conditions	Store in unopened containers at temperatures lower than 80 °F (27 °C)
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)
Adhesion in Peel	30 pli on aluminium, glass and concrete	(7 days at 77 °F (25 °C) 50 % R.H.) (ASTM C-794)
Movement Capability	+/-50 %	(7 days at 77 °F (25 °C) 50 % R.H. at 100 %) (ASTM C-719)
UV Exposure	Excellent	Ozone/UV Resistance (ASTM D-1149)
Colour Stability	Staining, Color Change	None (ASTM C-510)
	Staining on Porous Substrates	No staining (ASTM C-1248)
Service Temperature	-80–350 °F (-62–177 °C)	

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

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 (ASTM C-679)
Tooling Time	Initial Skin: 20–30 minutes (77 °F (25 °C) 50 % R.H.)	

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.

LIMITATIONS

- All structural silicone glazing applications must be reviewed, approved and handled by Sika Facades, Fenestration and Insulating Glass Tech Service at 1-800-641-0234.
- 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.

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.

OTHER RESTRICTIONS

See Legal Disclaimer.

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

- 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

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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.

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Product Data Sheet
Sikasil® WS-295
August 2019, Version 01.02
020511030000000009

SikasilWS-295-en-US-(08-2019)-1-2.pdf

