BUILDING TRUST

PRODUCT DATA SHEET

Sikasil® WS-295

NEUTRAL CURE, WEATHER SEALING SILICONE SEALANT

AVAILABLE ON INDENT ORDER ONLY

DESCRIPTION

Sikasil® WS-295 is a one part, neutral cure silicone sealant for use in most common weatherproofing applications on a wide variety of materials. It 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 ±50 %
- Excellent adhesion
- One-component
- Excellent gunnability in all temperatures

APPROVALS / STANDARDS

SEALANT WATERPROOFING & RESTORATION INSTITUTE

Issued to: Sika Corporation
Product: Sikasil® WS-295

C719: Pass ✔ Ext:+50% Comp:-50%

Substrate: Mortar, Aluminum, Glass

Validation Date: 8/23/17 – 8/22/22

No. 817-SIK295 *Copyright © 2017*

SEALANT VALIDATION
www.swrionline.org

PRODUCT INFORMATION

Packaging	10 fl.oz. (295 ml) cartridge, 20 fl.oz. (600 ml) sausage, 2 gal. pails (7.57 L)
Colour	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)
Resistance to UV Exposure	Excellent		Ozone/UV Resistance (ASTM D-1149)
Colour Stability	Staining, Color Change	None	(ASTM C-510)
	Staining on Porous Sub-strates	No staining	(ASTM C-1248)
Service Temperature	-80–350 °F (-62–177 °C)		

APPLICATION INFORMATION

Yield

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)
Curing Time	Tack Free Time	50 min.	(at 77 °F (25 °C) and 50 % R.H.) (ASTM C-679)
	Cure Time	7-14 days	
	Full Adhesion	7-14 days	
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 sub-strates may require a primer. Test by applying the seal-ant and/or primer sealant combination to confirm res-

ults and proposed application methods. Refer to Technical Data Sheet for primers 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

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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