BUILDING TRUST

BUILDING PRODUCT INFORMATION SHEET

Sikasil® WS-295

Neutral cure, weather sealing silicone sealant

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

FEATURES

- 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

PRODUCT INFORMATION

Product identifier	Sikasil® WS-295
Place of manufacture	Overseas
Packaging	10 fl.oz. (295 ml) cartridge, 20 fl.oz. (600 ml) sausage, 2 gal. pails (7.57 L)
Shelf life	12 months in original unopened containers
Storage conditions	Store in unopened containers at temperatures lower than 80 °F (27 °C)
Colour	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)	
Tensile strain 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)		
Resistance to 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)

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.	
	Cure Time	7-14 days	
	Full Adhesion	7-14 days	
	(at 77 °F (25 °C) and 50 % R.H.) (ASTM C-679)		
Tooling time	Initial Skin: 20–30 minutes		(77 °F (25 °C) 50 % R.H.)

MANUFACTURER AND IMPORTER INFORMATION

Manufacturer information	Address	Sika Italia S.p.a, Via Luigi Einaudi 6, 20068 Peschiera Borromeo, Milan, Italy
Importer information	Address	Sika (NZ) Limited 85-91 Patiki Road Avondale, Auckland 1026 New Zealand
	Phone number	0800 745 269
	Website	https://nzl.sika.com/
	Email address	info@nz.sika.com
	NZBN	9429000018791

BUILDING CODE INFORMATION

Building Code clauses	B2 Durability: Performance clauses B2.3.1 - (b) not less than 15 Years, (c) not less than 5 years E2 External Moisture: Performance clause E2.3.2 F2 Hazardous Building Materials: Performance clause F2.3.1
Building Code compliance statements	Performance B2.3.1 (b) 15 years and (c) 5 years: This product achieves these durability requirements and will remain serviceable for 15 years, or more, when installed and maintained in accordance with the relevant Sika technical literature. nzl.sika.com. According to Sika's "Service Improvement" records, maintained within its ISO9001:2015 Quality Management System, this product has performed successfully since it was introduced in 2015. Performance E2.3.1, E2.3.2: In accordance with E2/AS1 and E2/AS3 (CCANZ CP 01:2014) this product has been tested and is compliant with the ISO11600:2002 Type F, Class 25LM classification (refer to nzl.sika.com). When used to seal flexible joints, as part of a roofing or wall cladding system, or around external openings, such as windows and doors, the product contributes to meeting the E2.3.1 and E2.3.2 weathertightness requirements. Performance F2.3.1: This product meets this requirement when used and applied in accordance with Sika's installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Sika Product Technical Data sheet and product Safety Data Sheet nzl.sika.com for further information if required

BASIS OF PRODUCT DATA

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

IMPORTANT CONSIDERATIONS

- 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.

ECOLOGY, HEALTH AND SAFETY

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in this product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w).

APPLICATION INSTRUCTIONS

DESIGN REQUIREMENTS

Sikaflex Elastomeric Sealants - Joint design and movement calculation guide nzl.sika.com

Sika Sealant Selector Guide, Consumption Guide and Best Practice Tips nzl.sika.com

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 and contact Technical Service for additional information.

APPLICATION

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.

MAINTENANCE REQUIREMENTS

Joints that have been sealed with this product should be inspected annually (or sooner if required). Gently clean the surface of the joint with a mild solution of water and household detergent, using a soft brush to remove any residual contaminants and rinse clean with fresh water. Any defects within the joint should be identified and removed. The joint should then be cleaned, primed and repaired using the same Sika product to restore the original integrity of the joint. Refer to the Sika product data sheet and the website for further information. nzl.sika.com

For full instructions on maintenance of sealed joints, refer to Sika Building façade Joint Cleaning, Care and Maintenance Instructions at nzl.sika.com

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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.

The building product/building product line is not subject to warning or ban under section 26 of the Building Act 2004.

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