

Product Data Sheet
Edition 9.7.2012
Sikasil WS-295



Sikasil® WS-295

Neutral cure, weather sealing silicone sealant

Construction

Description	Sikasil-WS 295 sealant is a one part, neutral cure, low to no bleed silicone sealant 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
Where to Use	Sikasil WS-295 silicone sealant has been specifically designed for: <ul style="list-style-type: none"> ■ 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
Packaging	10.0 fl.oz. (295 ml) cartridge, 20 fl.oz. (600 ml) sausage
How to Use	
Surface 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 2100 primer and contact Technical Service for additional information.

Typical 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.

Shelf Life	12 months in original unopened cartridges.
Storage Conditions	Store in unopened containers at temperatures lower than 80°F (27°C).
Colors	White, Colonial White, Aluminum, Limestone, Black, Bronze, Medium Bronze
VOC Content	25 g/L

Uncured Properties at 77°F (25°C), 50% R.H.

Tool/Work Time (Initial Skin)	20-30 minutes
Cure Time (ASTM C-679)	7-14 days
Flow, Sag, Slump (ASTM C-639)	no sag
Full Adhesion (ASTM C-679)	7-14 days
Tack Free Time (ASTM C-679)	50 min.

Cured Properties after 7 days at 77°F (25°C), 50% R.H.

Dynamic Movement Capability (ASTM C-719)	+/-50%
Elongation (ASTM D-412)	800%
Shore A Hardness (ASTM C-661)	25
Ozone/UV Resistance (ASTM D-1149)	Excellent
Peel Strength (ASTM C-794) on aluminum, glass and concrete	30 pli
Staining, Color Change (ASTM C-510)	none
Staining on Porous Substrates (ASTM C-1248)	no staining
100% Modulus (ASTM D-412)	55 psi (0.38 MPa)
Service Temperature Range	-80°F to 350°F
Tensile Strength (ASTM D-412)	200 psi (1.38 MPa)



Application	The number of joints and the joint width should be designed for a maximum of $\pm 25\%$ movement of joint width at time of installation. The depth of the sealant should be 1/2 the width of the joint. The maximum depth is 1/2 inch (13mm) and the minimum is 1/4 inch (6mm). 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. 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.
Limitations	<ul style="list-style-type: none"> ■ *All structural silicone glazing applications must be reviewed and approved 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 or above 130°F. ■ 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.
CAUTION	WARNING: IRRITANT, SENSITIZER. Contains Methyl ethyl ketoxime (CAS: 96-29-7), Oximino Silane (Trade Secret). Direct eye contact may cause irritation. Eye contact may cause conjunctivitis, corneal damage, or severe chemical burns. May cause skin irritation and sensitization. May be absorbed through the skin. May cause irritation to respiratory system. May cause drowsiness. Maybe harmful if swallowed. If heated, silicones can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin, and digestive system. Product contains oximes, possible skin sensitizers.
Handling and Storage	Use with adequate ventilation. Product evolves Methyl ethyl ketoxime (MEKO) and methanol when exposed to water or humid air. Provide adequate ventilation to control MEKO within exposure guidelines. Keep container closed and store away from water or moisture or oxidizing materials.
First Aid	Remove to fresh air. Remove from skin and immediately flush with water for 15 minutes. Get medical attention if irritation develops or ill effects persist. Treat according to person's condition and specifics of exposure.
Clean Up	Observe personal protective equipment recommendations described in MSDS. Disposal of collected product, residues, and cleanup materials may be governmentally regulated. Observe all applicable local, state and federal waste management regulations. Wipe up and contain for disposal. Final cleaning may require use of steam, solvents, or detergents.

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

All information provided by Sika Corporation ("Sika") concerning Sika products, including but not limited to, any recommendations and advice relating to the application and use of Sika products, is given in good faith based on Sika's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Sika's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Sika's control are such that Sika assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Sika product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s). Sika reserves the right to change the properties of its products without notice. All sales of Sika product(s) are subject to its current terms and conditions of sale which are available at www.sikausa.com or by calling 800-933-7452.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Technical Data Sheet, product label and Material Safety Data Sheet which are available online at www.sikausa.com or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use.

LIMITED WARRANTY: 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 Technical Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKASHALL NOT BELIEVABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKASHALL 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.**

Visit our website at www.sikausa.com

1-800-933-SIKA NATIONWIDE

Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center.

Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: 800-933-7452
Fax: 201-933-6225

Sika Canada Inc.
601 Delmar Avenue
Pointe Claire
Quebec H9R 4A9
Phone: 514-697-2610
Fax: 514-694-2792

Sika Mexicana S.A. de C.V.
Carretera Libre Celaya Km. 8.5
Fracc. Industrial Balvanera
Corregidora, Queretaro
C.P. 76920
Phone: 52 442 2385800
Fax: 52 442 2250537



Sika and Sikasil are registered trademarks.
Printed in Canada.

