



Sikasil® WS-295 FPS

Neutral cure, field pigmentable silicone sealant

Description	Sikasil-WS 295 FPS sealant is a field pigmentable, no bleed, one component plus color pack, non-sag elastomeric, neutral cure 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 FPS silicone sealant has been specifically designed for: <ul style="list-style-type: none"> ■ As a weatherseal in nonstructural glazing applications including gap, 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.
Advantages	<ul style="list-style-type: none"> ■ One-part plus color pack ■ Unaffected by most atmospheric conditions ■ Non-staining ■ Joint movement ±50% ■ Excellent adhesion ■ Excellent gunnability in all temperatures
Packaging	1.5 gal of material in 2 gallon white base. Silicone color packs sold separately.

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. Custom colors available on request.

VOC Content 37 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)	700%
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
Stress at 100% (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)



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 PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT [HTTP://USA.SIKA.COM/](http://usa.sika.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 INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

Coverage

1 gallon: Yield in Linear feet				
Depth	1/4"	3/8"	1/2"	
Width	1/4"	307.9		
	3/8"	205.3	136.8	
	1/2"	153.9	102.6	77.0
	3/4"	102.6	68.4	51.3
	1"			38.5
	1.25"			30.8
	1.5"			25.7

How to Use

Mixing

Cut open Sikasil® color pak and pour into pail. Mix using a slow speed drill (400-600 rpm) and a conventional sealant mixing paddle to disperse the color evenly for no more than three minutes, being sure to scrape down the sides during mixing. Avoid air entrapment during mixing.

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. Strictly follow solvent manufacturer's warnings and instructions for use.

Priming

Sikasil WS-295 FPS 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

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 joint 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

- 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 structural glazing applications.
- 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.

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

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

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 Product Data Sheet, product label and Safety Data Sheet which are available online at <http://usa.sika.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 Product Data Sheet, product label and Safety Data Sheet prior to product use.

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