

Product Data Sheet
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Sikasil WS-295 FPS



Sikasil® WS-295 FPS

Neutral cure, field pigmentable silicone sealant

Description	Sikasil-WS 295 FPS sealant is a, field pigmentable sealant is a low to no bleed versatile weather sealant/adhesive, one component plus color pack, non-sag elastomeric, neutral cure silicone sealant. Meet the requirement of ASTM C-920, Type S, Grade NS, Class 50, Use NT, M, G, O; TT-S-00230C, Type II Class A; CAN/CGSB-19.13-M87, AAMA 802.3
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 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	1.5 gallon white base. Silicone color packs sold separately.
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 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 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 Sikasil Primer 2100 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. Custom colors available on request.
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)

Construction

Application	The number of joints and the joint width should be designed for a maximum of +50 and -50% 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 (13 mm) and the minimum is 1/4 inch (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 joint or with E.I.F.S. When installing during time of large temperature swings such as spring or fall, and in joints designed for movement greater than $\pm 25\%$, be aware of the significant joint movement before cure, may cause aesthetic issues such as ripples in the sealant surface. Performance will not be affected. 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"> ■ 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.
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. May be 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	Avoid direct contact. Wear personal protective equipment (chemical resistant goggles/gloves/clothing) to prevent direct contact with skin and eyes. 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. Open doors and windows during use. Use a properly fitted NIOSH respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing and laundry before reuse. Store in dry area away from heat.
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	Use personal protective equipment (chemical resistant gloves/goggles/clothing). Without direct contact, remove spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable environmental regulations.

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

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