

PRODUCT DATA SHEET

Sikasil® WS-295 FPS

NEUTRAL CURE, FIELD PIGMENTABLE SILICONE SEALANT

PRODUCT 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; TTS-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 FPS silicone sealant has been specifically designed for:

- 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

- One-part plus color pack
- Unaffected by most atmospheric conditions
- Excellent resistance to UV and Ozone exposure
- Non-staining
- Joint movement $\pm 50\%$
- Excellent adhesion
- Excellent gunnability in all temperatures

APPROVALS / STANDARDS



PRODUCT INFORMATION

Packaging	1.5 gal pails (5.7 L), Silicone color packs sold separately
Color	White, Colonial White, Aluminum, Limestone, Black, Bronze, Medium Bronze. Custom colors available on request.
Shelf Life	12 months in original unopened pails.
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) and 50 % R.H.) (ASTM C-661)
Tensile Strength	200 psi (1.38 MPa)	(7 days at 77 °F (25 °C) and 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) and 50 % R.H.) (ASTM D-412)
Elongation at Break	700 %	(7 days at 77 °F (25 °C) and 50 % R.H.) (ASTM D-412)
Tensile Adhesion Strength	Reaches full adhesion in 7-14 days	
Adhesion in Peel	30 pli on aluminum, glass and concrete	(7 days at 77 °F (25 °C) and 50 % R.H.) (ASTM C-794)
Movement Capability	+/-50 %	(7 days at 77 °F (25 °C) and 50 % R.H.) (ASTM C-719)
Resistance to Weathering	Excellent	
UV Exposure	Excellent	(ASTM D-1149)
Colour Stability	Staining, Color Change	None (ASTM C-510)
	Staining on Porous Substrates	No staining (ASTM C-1248)
Service Temperature	-80–350 °F (-62–176 °C)	

APPLICATION INFORMATION

Coverage	1 gallon: Yield in Linear feet			
	Width/Depth	1/4"	3/8"	1/2"
	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
Sag Flow	no sag	(at 77 °F (25 °C) and 50 % R.H.) (ASTM C-639)		
Cure Time	Tack Free Time	50 min.	(at 77 °F (25 °C) and 50 % R.H.)	
	Cure Time	7-14 days	50 % R.H.)	
	Full Adhesion	7-14 days	(ASTM C-679)	
Tooling Time	20–30 minutes	(at 77 °F (25 °C) and 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. 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.

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.

APPLICATION METHOD / TOOLS

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.

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 (-28 °C) or above 130 °F (54 °C).
- 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.

BASIS OF PRODUCT 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.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

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

LEGAL DISCLAIMER

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

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