Product Data Sheet Edition 5.12.2016 Sikasil WS-290 FPS



Sikasil[®] WS-290 FPS

Ultra low modulus, neutral cure, field pigmentable silicone sealant

Description	Sikasil WS-290 FPS is a field pigmentable, low to no bleed, low modulus, one–component plus color pack, non-sag, elastomeric, neutral cure silicone sealant. Sikasil WS-290 FPS performs exceptionally well under dynamic conditions due to its ultra-low modulus, high extension/compression, recovery properties and strong adhesion to most building materials. Sikasil WS-290 FPS accommodates long-term movement of +100-50% in properly designed joints and is particularly well suited for use in Exterior Insulation Finish Systems (EIFS). Meets the requirements of ASTM C-920, Type S, Grade NS, Class 100/50, Use NT, M, G, A, O; TT-S-00230C, Type II, Class A; TT-S-001543A, Class A; CAN/CGSB-1913-M87, AAMA 808.3.												
Where to Use	As a weatherseal in gAs a weatherseal in r		anels and metal curtain walls. , including cap, toe and heel beads us other areas requiring a high-performance										
Application	 Field pigmentable se Unaffected by most a Non-staining Joint movement +10 Excellent adhesion One-component, plus Excellent gunnability Ultra low modulus 	atmospheric conditions 10/-50% s color pack											
Packaging	10.1 fl.oz. (.300 ml) plastic	cartridges, 20 fl.oz. (.592 ml) saus	ages, 1.5 gal of material in 2 gal. (7.57 L) pails										
		ION METHODS, TEST METHODS, ACTUA	PENDING UPON MIXING METHODS AND EQUIPMENT, L SITE CONDITIONS AND CURING CONDITIONS. I cartridges. It temperatures lower than 80°F (27°C).										
	Colors White, Colonial White, Aluminum, Limestone, Black, Bronze, Medium Bronze Custom colors available on request.												
	VOC Content 29 g/L												
	Uncured Properties at 77°F (25°C), 50% R.H.												
	Tool Time (Initial Skir		30 minutes (higher temperatures and/or humidity will shorten this time)										
	Cure Time		7-14 days										
	Flow, Sag, Slump		no sag										
	Full Adhesion		7-14 days										
	Tack Free Time		50 min.										
	Cured Properties after 7 days at 77°F (25°C), 50% R.H.												
		Canability (ASTM C 719)	+100%, -50%										
	Dynamic Movement	Capability (ASTNI C-715)	10070, 0070										
	Dynamic Movement Elongation (ASTM D-		1000%										
		412)											
	Elongation (ASTM D-	412) STM C-661)	1000%										
	Elongation (ASTM D- Shore A Hardness (A	412) STM C-661) e (weatherometer)	1000% 12										
	Elongation (ASTM D- Shore A Hardness (A Ozone/UV Resistance	412) STM C-661) e (weatherometer) C-794)	1000% 12 Excellent										
	Elongation (ASTM D- Shore A Hardness (A Ozone/UV Resistance Peel Strength (ASTM Staining, Color Chan	412) STM C-661) e (weatherometer) C-794)	1000% 12 Excellent 20-40 pli										
	Elongation (ASTM D- Shore A Hardness (A Ozone/UV Resistance Peel Strength (ASTM Staining, Color Chan	412) STM C-661) e (weatherometer) C-794) ge (ASTM C-510) Substrates (ASTM C-1248)	1000% 12 Excellent 20-40 pli none										



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 DE-PARTMENT 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 CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

Coverage	10.1 oz Cartridge: Yield in Linear feet				20 oz Sausage: Yield in Linear feet					ļ	1 gallon: Yield in Linear feet						
		Depth	1/4"	3/8"	1/2")epth	1/4"	3/8"	1/2"			lepth	1/4"	3/8"	1/2"
		1/4"	24.3]		1/4"	48.1			1		1/4"	307.9		
		3/8"	16.2	10.8		1		3/8"	32.1	21.4		1		3/8"	205.3	136.8	i – i
		1/2"	12.1	8.1	6.1	1		1/2"	24.1	16.0	12.0	1		1/2"	153.9	102.6	77.0
	Width	3/4"	8.1	5.4	4.0	1	Width	3/4"	16.0	10.7	8.0	1	Width	3/4"	102.6	68.4	51.3
	ž	<u> </u>	0.1	5.4		ł	Ň		10.0	10.7	<u> </u>	ł	Š		102.6	00.4	\vdash
		1"		ļ	3.0	4		1" 1.25"			6.0 4.8 4.0			1"			38.5
		1.25"			2.4 2.0]								1.25"			30.8
		1.5"						1.5"						1.5"			25.7
How to Use Surface Preparation	The substrate must be clean, dry, frost free, sound and free of any oils, greases or incompatible sealers, pain coatings that may interfere with adhesion. POROUS SUBSTRATES – clean by mechanical methods to expose a sound surface free of contamination and laita NON-POROUS SUBSTRATES – for cleaning non-porous substrates, use two rag wipe method using xylene of approved commercial solvent. Allow solvent to evaporate prior to sealant application.													and laita			
	approved commercial solvent. Allow solvent to evaporate prior to sealant application.																
Priming	Sikasil WS-290 FPS is designed to obtain adhesion without the use of a primer; however, certain substrate may require a primer. Test by applying the sealant and/or primer sealant combination to confirm results ar proposed application methods. Refer to Technical Data Sheet for Sikasil 2100 primer and contact Technic 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 of 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 or grade joint or with E.I.F.S. When installing during time of large temperature swings such as spring or fall, an in joints designed for movement greater than ± 25%, be aware of the significant joint movement before current you 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 sealar to create a concave joint shape and maximum adhesion. Dry tooling is recommended. DO NOT use soap water or other liquids when tooling.																
Tooling & Finishing	All joints should be masked to ensure a neat appearance and prevent sealant applied outside the joint. Pla nozzle of the gun into bottom of joint and fill entire joint making complete contact with joint sides. Keep the nozz in the sealant, continue with a steady flow of sealant preceding the nozzle to avoid air entrapment. Tool the sea ant slightly concave using dry-tooling techniques. Do not tool with soap or detergent and water solutions.																
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