## **Product Data Sheet**

Edition 12.7.2015 Sikaflex-1c SL

## **Sikaflex<sup>®</sup>-1c SL** High performance, self-leveling, 1-part polyurethane sealant

Description		aflex-1c SL is a single component, self-leveling, premium-grade polyurethane sealant with an accelerated curir acity. Meets Federal Specification TT-S-00230C, Type I, Class A. Meets ASTM C-920, Type S, Grade P, Class 25, use A, G, I.						
Where to Use	Sikaflex-1c SL is used to seal horizontal expa Sidewalks Balconies Pavements Terraces Warehouses Factories Civil Structures Plazas Pitch Pans	<ul> <li>Balconies</li> <li>Pavements</li> <li>Terraces</li> <li>Warehouses</li> <li>Factories</li> <li>Civil Structures</li> <li>Plazas</li> </ul>						
Advantages	<ul> <li>1-component, no mixing</li> <li>Self-leveling, pourable</li> <li>Accelerated curing</li> <li>Can be applied to green concrete 24 hour</li> <li>Can be applied to damp concrete 1 hour a</li> <li>Extremely elastic</li> <li>High durability</li> <li>Resists aging, weathering</li> <li>Excellent adhesion</li> <li>Convenient, easy-to-use packaging</li> <li>Jet fuel resistant</li> </ul>							
Coverage	10.1 fl. oz. cartridge seals 12 linear ft. of 1/2 x 29 fl. oz. cartridge seals 34 linear ft. of 1/2 x 5 gal pail seals 684 linear ft. of 1/2 x 1/4 in. j <b>Typical Data</b> (Material and curing	1/4 in. joint. oints. conditions 73°F (23°C) and 50% R.H.)						
		L VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.						
	Shelf Life: Storage Conditions: Color: VOC Content:	10.1 oz. cartridge 1 year in original unopened packaging. 29 oz. cartridge 1 year in original unopened packaging. 4.5 gallon pail 6 months. 50 gallon drum 6 months. Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. Limestone 40 g/l						
	Application Temperature: Service Range: Curing Rate Tack-free Time: Recovery:	40°-100°F. Sealant should be installed when joint is at mid-range of its anticipated movement. -40° to 170°F. 1 to 2 hours. Final Cure: 3 to 5 days >90%						
	Shore 'A' Hardness (ASTM D-2240):	21 Day 40 + 5						
	Shore 'A' Hardness (ASTM D-2240): Tensile Properties (ASTM D-412): 21 Day Tensile Strength: Elongation @ Break: Modulus of Elasticity 100%:	21 Day 40 ± 5 150 psi 450% 110 psi						





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.

Packaging	10.1 fl. oz. moisture-proof composite cartridges, 24/case. 29 oz. moisture-proof composite cartridges,12/case. 4.5 gallon pails. 50 gallon drums.		Linear Feet of Sealant per Gallon Depth					
	4.5 gallon palls. 50 gallon drums.	1	to do a	1/4	1/2			
How to Use			Inches	, .	12			
Surface Preparation	Surface Preparation Clean all surfaces. Joint walls must be sound,		1/4 1.e	308.0				
	clean,dry, frost-free, and free of oil and grease. Curing compound residues and any other foreign matter must be thoroughly	ţ	1/2	154.0	77.0			
	removed. A mechanically roughened surface will also enhance	Width	3/4	102.7	51.3			
	bond. For green concrete applications control joints must be cut	-	1	77.0	38.5			
	8 hours (min.) prior to sealant installation and expansion joint forms must be removed 4 hours (min.) prior to sealant installa-		1 <sup>1</sup> /2	61.6	30.8			
	tion. For wet concrete applications all excess or standing water must be displaced and concrete must then dry for a minimum		$1^{3}/4$	51.3	25.7			
Priming	of 60 min prior to sealant installation. Install bond breaker tape or backer rod to prevent bond at base of joint. Priming is not usually necessary. Substrates only require priming if testing indicates a need or where sealant will subjected to water immersion after cure. Consult Sikaflex Primer Technical Data Sheet or Technical Service for additio information on priming.							
Application	<ul> <li>Recommended application temperatures: 40°-100°F. Preconditioning sealant to approximately 70°F is necessary where working at extremes. For best performance, Sikaflex-1c SL should be poured into joint when joint slot is at mid-poor of its designed expansion and contraction. Pour sealant into joint slot in one direction and allow sealant to flow a level out as necessary. Tool as required, although minimum tooling is necessary. Joint dimension should allow for a inch minimum and 1/2 inch maximum thickness for sealant. Proper design is 2:1 width to depth ratio. Always use be breaker tape or closed cell backer rod for support on horizontal joints.</li> <li>Sikaflex-1c SL can be applied in green concrete after the concrete has cured for a minimum of 24 hours at 75°F. Cont joints must be cut and open for min of 8 hours prior to application. Expansion joints must have forms removed a minimum of 4 hours prior to application. For damp concrete applications Sikaflex-1c SL can be applied 60 minutes after a and all water has been displaced.</li> </ul>							
	<ul> <li>When overcoating with water, oil and rubber bassed paints, compatibility and adhesion testing is essential.</li> <li>Maximum exposure level of chlorine is 5 ppm.</li> <li>In joints subject to movement - maximum depth of sealant must not exceed 1/2 in.; minimum depth is 1/4 in.</li> <li>Minimum depth of sealant for horizontal joints subject to traffic is 1/2 in.</li> <li>Maximum expansion and contraction should not exceed 25% of average joint width.</li> <li>Do not cure in the presence of curing silicone sealants.</li> <li>Avoid contact with alcohol and other solvent cleaners during cure.</li> <li>Do not apply when moisture-vapor transmission condition exists from the substrate as this can cause bubbling within the sealant.</li> <li>Use opened cartridges the same day.</li> <li>The ultimate performance of Sikaflex-1c SL depends on good joint design and proper application with joint surfaces properly prepared.</li> <li>Do not use in contact with bituminous/asphaltic materials.</li> <li>In green concrete applications sealing joints in poor or low strength concrete 24 hours after pour may impact a ity of sealant to gain proper adhesion.</li> <li>In damp concrete applications all standing water and excess water must be eliminated prior to the 60 minute waiting time.</li> </ul>							
INS SH PAI TO RE	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS A INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE I PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATI TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CU RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.							
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