## Sikaflex®-1c SL

High performance, self-leveling, 1-part polyurethane sealant

Description	Sikaflex-1C SL is a single component, self-leveling, premium-grade polyurethane sealant with an accelerated curing capacity. Meets Federal Specification TT-S-00230C, Type 1, Class A. Meets ASTM C-920, Type S, Grade P, Class 25, use T, NT, M, O, G, I.  Sikaflex-1C SL is used to seal horizontal expansion joints in concrete and cementitious slabs such as:  Sidewalks  Balconies  Pavements  Terraces  Warehouses  Factories  Civil Structures  Plazas  Pitch Pans						
Where to Use							
Advantages	<ul> <li>1-component, no mixing</li> <li>Self-leveling, pourable</li> <li>Accelerated curing</li> <li>Permanently 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 lineal ft. of $1/2 \times 1/4$ in. joint. 30 fl. oz. cartridge seals 36 lineal ft. of $1/2 \times 1/4$ in. joint.						
Packaging	10.1 fl. oz. moisture-proof composite cartridges, 24/case. 30 oz. moisture-proof composite cartridges, 12/case. Available on special order: 5 gallon pails.						

## Typical Data (Material and curing conditions 73°F (23°C) and 50% R.H.)

Shelf Life 10.1 oz. cartridge 1 year in original unopened packag-

ing.

29 oz. cartridge 1 year in original unopened packaging.

5 gallon pail 6 months. 55 gallon drum 6 months.

Storage Conditions Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.

**Color** Limestone

 $\textbf{Application Temperature} \quad 40^{\circ}\text{-}100^{\circ}\text{F. Sealant should be installed when joint is at mid-range of its}$ 

anticipated movement.

Service Range -40° to 170°F.

Curing Rate Tack-free Time: 1 to 2 hours. Final Cure: 3 to 5 days

Recovery >90%

Shore 'A' Hardness (ASTM D-2240) 21 Day  $50 \pm 9$ 

**Tensile Properties (ASTM D-412)** 

21 Day Tensile Strength: 300 psi Elongation @ Break: 500% Modulus of Elasticity 100%: 200 psi

Adhesion in Peel (ASTM C-794)

SubstratePeel StrengthAdhesion LossMortar> 15 pli0% Adhesion LossAluminum> 15 pli0% Adhesion Loss

Joint Movement ± 25%
Weathering Resistance Excellent



Clean Up

How to Use Surface Preparation	Clean all surfaces. Joint walls must be	Linear Feet of Sealant per Gallon Depth								
Surface Freparation	sound, clean, dry, frost-free, and free of oil		Inches	1/4	1/2	3/4	1	11/4	1½	
	and grease. Curing compound residues		1/4	308.0	,,,	, ,	'	174	1/2	
	and any other foreign matter must be thor- oughly removed. Install bond breaker tape	_	1/2	154.0	77.0					
	or backer rod to prevent bond at base of	Width	3/4	102.7	51.3	34.2				
	joint.	. >	1	77.0	38.5	25.7	19.3			
Priming	Priming is not usually necessary. Substrates only require priming if testing		11/4	61.6	30.8	20.5	15.4	12.3		
	indicates a need or where sealant will be		11/2	51.3	25.7	17.1	12.8	10.3	8.6	
	subjected to water immersion after cure.	oot or Too	haisal Cor	viaa far	addition	aal infor	motion	on primi		
Application	Consult Sikaflex Primer Technical Data Sheet or Technical Service for additional information on priming.  Recommended application temperatures: 40°-100°F. Pre-conditioned sealant to approximately 70°F is									
	when joint slot is at mid-point of its designed irection and allow sealant to flow and levenecessary. Joint dimension should allow for Proper design is 2:1 width to depth ratio. A on horizontal joints.	el out as n r 1/4 inch	ecessary. minimum	Tool as and 1/2	require inch m	d, althou aximum	ugh min thickne	imum to	oling is ealant.	
Limitations	<ul> <li>Allow 1 week cure at standard conditions when using Sikaflex-1CSL in total water immersion situations.</li> </ul>									
	Maximum exposure level of chlorine is 5 ppm.  In its interpretable to the property of the									
	<ul> <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> </ul>									
	<ul> <li>Maximum expansion and contraction should not exceed 25% of average joint width.</li> </ul>									
	■ Do not cure in the presence of curing silicone sealants.									
	<ul> <li>Avoid contact with alcohol and other solvent cleaners during cure.</li> </ul>									
	<ul> <li>Do not apply when moisture-vapor transmission condition exists from the substrate as this can cause bubbling within the sealant.</li> </ul>									
	■ Use opened uni-pac sausages the same day.  The ultimate and formation of City flow 10.00 days and a same divisit daying and appear and in the city of the country of City flow 10.00 days and a same day in the city of the									
	The ultimate performance of Sikaflex-1C SL depends on good joint design and proper application with joint surfaces properly prepared.									
Caution										
Irritant	Sensitizer; Combustible Liquid - Contains xylenes, ethyl benzene, isocyanate prepolymer. Can cause skin and/or respiratory sensitization after prolonged or repeated exposure. Skin, eye, respiratory irritant. Avoid skin contact. Use only with adequate ventilation. Use of safety goggles and chemical resistant gloves is recommended. In case of exceedance of PELs, use an appropriate, properly fitted NIOSH approved respirator. Remove contaminated clothing. Keep away from sparks, open flames and high heat.									
First Aid	In case of skin contact, wash immediately and thoroughly with soap and water. If symptoms persist, consult									

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

physician. For eye contact, flush immediately with plenty of water for at least 15 minutes; contact a physician. For respiratory problems, remove person to fresh air; if symptoms persist, consult physician. In case of

In case of spills or leaks, wear suitable protection equipment, contain spill, collect with absorbent material, and transfer to a suitable container. Ventilate area. Avoid contact. Dispose of in accordance with current,

ingestion, dilute with water and consult physician. Remove contaminated clothing.

applicable local, state and federal regulations.

All information provided by Sika Corporation ("Sika") concerning Sika products, including but not limited to, any recommendations and advice relating to the application and use of Sika products, is given in good faith based on Sika's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Sika's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Sika's control are such that Sika assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions are shall be adviced by the product of the product All sales of Sika product(s) are subject to its current terms and conditions of sale which are available at www.sikacorp.com or by calling 800-933-7452.

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 Technical Data Sheet, product label and Material Safety Data Sheet which are available online at <a href="https://www.sikaconstruction.com">www.sikaconstruction.com</a> 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 Technical Data Sheet, product label and Material Safety Data Sheet prior to product use.

LIMITED WARRANTY: Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NOOTHERWARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKASHALL NOTBELIABLE UNDERANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKASHALL NOTBERESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

Visit our website at www.sikaconstruction.com

1-800-933-SIKA NATIONWIDE Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center.

Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225

Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792

Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Fax: 52 442 2250537

Sika and Sikaflex are registered trademarks Made in the USA