



High Performance, Self-leveling, 1-part polyurethane sealant

DESCRIPTION

Sikaflex-1CSL 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.

WHERE TO USE

Sikaflex-1CSL is used to seal horizontal expansion joints in concrete and cementitious slabs such as:

- Sidewalks
- Balconies
- Pavements
- Terraces
- Warehouses
- Factories
- Civil Structures
- Plazas

ADVANTAGES

- 1-component, no mixing
- Self-leveling, pourable
- Accelerated curing
- Permanently elastic
- High durability
- Resists aging, weathering
- Excellent adhesion
- Convenient, easy-to-use packaging

COVERAGE

20 fl. oz. uni-pac sausage seals 24 lineal ft. of ½ x ¼ in. joint.

PACKAGING

Disposable 20 oz. uni-pac sausage, 20/ carton.
Available on special order: 5 gallon pails.

HOW TO USE

SURFACE PREPARATION

Clean all surfaces. Joint walls must be sound, clean, dry, frost-free, and free of oil and grease. Curing compound residues and any other foreign matter must be thoroughly removed. Install bond breaker tape or backer rod to prevent bond at base of joint.

TYPICAL DATA FOR SIKAFLEX-1CSL

(Material and curing conditions 73F (23C) and 50% R.H.)

SHELF LIFE	9 months, in original unopened packaging.	
STORAGE CONDITIONS	Store at 40-95F (4-35C). Condition material to 65-75F before using.	
COLOR	Concrete Gray	
APPLICATION OF TEMPERATURE	40-100 F. Sealant should be installed when joint is at mid-range 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	45 ± 5	
TENSILE PROPERTIES (ASTM D-412)		
21 Day	Tensile Strength:	550 psi
	Elongation @ Break:	700%
	Modulus of Elasticity 100%:	150 psi
ADHESION IN PEEL (ASTM C-794)		
Substrate	Peel Strength	Adhesion Loss
Concrete	> 30 pli	0% Adhesion Loss
JOINT MOVEMENT	± 25%	
WEATHERING RESISTANCE	Excellent	

PRIMING

Priming is not usually necessary. Substrates only require priming if testing indicates a need or where sealant will be subjected to water immersion after cure. Consult Sikaflex Primer Technical Data Sheet or Technical Service for additional information on priming.

APPLICATION

Recommended application temperatures: 40-100 F. Pre-conditioned sealant to approximately 70 F is necessary when working at extremes. For best performance, Sikaflex-1CSL should be poured into joint when joint slot is at mid-point of its designed expansion and contraction. Pour sealant into joint slot in one direction and allow sealant to flow and level out as necessary. Tool as required, although minimum tooling is necessary. Joint dimension should allow for 1/4 inch minimum and 1/2 inch maximum thickness for sealant. Proper design is 2:1 width to depth ratio. Always use bond breaker tape or closed cell backer rod for support on horizontal joints.

LIMITATIONS

Allow 1 week cure at standard conditions when using Sikaflex-1CSL in total water immersion situations. Maximum exposure level of chlorine is 5 ppm.

In joints subject to movement - maximum depth of sealant must not exceed ½ in.; minimum depth is ¼ in. Minimum depth of sealant for horizontal joints subject to traffic is ½ in. Maximum expansion and contraction should not exceed 25% of average joint width.

Do not cure in the presence of curing silicone sealants.

Avoid contact with alcohol and other solvent cleaners during cure.

Do not apply when moisture-vapor transmission condition exists from the substrate as this can cause bubbling within the sealant.

Use opened uni-pac sausages the same day.

The ultimate performance of Sikaflex-1CSL 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/MSHA 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 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 ingestion, dilute with water and consult physician. Remove contaminated clothing.

CLEAN UP

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, applicable local, state and federal regulations.

Product Code 432. Sika and Sikaflex are registered trademarks. Made in USA. Printed in USA. January, 1997.

**KEEP CONTAINER TIGHTLY CLOSED
NOT FOR INTERNAL CONSUMPTION**

**KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY**

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

'SIKA WARRANTS ITS PRODUCTS TO BE FREE OF MANUFACTURING DEFECTS AND THAT THEY WILL MEET SIKA'S CURRENT PUBLISHED PHYSICAL PROPERTIES WHEN APPLIED IN ACCORDANCE WITH SIKA'S DIRECTIONS AND TESTED IN ACCORDANCE WITH ASTM AND SIKA STANDARDS. THERE ARE NO OTHER WARRANTIES BY SIKA OF ANY NATURE WHATSOEVER, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IN CONNECTION WITH THIS PRODUCT. SIKA CORPORATION SHALL NOT BE LIABLE FOR DAMAGES OF ANY SORT, INCLUDING REMOTE OR CONSEQUENTIAL DAMAGES, RESULTING FROM ANY CLAIMED BREACH OF ANY WARRANTY, WHETHER EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR FROM ANY OTHER CAUSE WHATSOEVER. SIKA SHALL ALSO NOT BE RESPONSIBLE FOR USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT HELD BY OTHERS.'

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
Corregidora, Queretaro
C.P. 76920 A.P. 136
Phone: 52 42 25 0122
Fax: 52 42 25 0537