



## PRODUCT DATA SHEET

# Sikaflex<sup>®</sup>-2c SL

Two-component, self-levelling, polyurethane elastomeric sealant

### PRODUCT DESCRIPTION

Sikaflex<sup>®</sup>-2c SL is a 2-component, premium-grade, polyurethane-based, elastomeric sealant. It is principally a chemical cure in a self-levelling consistency.

### WHERE TO USE

Sikaflex<sup>®</sup>-2c SL is intended for use in all properly designed working joints with a minimum depth of 6 mm (1/4 in)

- Horizontal joints
- Sealing applications in canal and reservoir joints (submerged conditions)

### CHARACTERISTICS / ADVANTAGES

- True self-leveling properties
- Placeable at temperatures as low as 4 °C (40 °F)
- Adheres to most substrates commonly found in construction
- Capable of ± 50 % joint movement

### PRODUCT INFORMATION

<b>Packaging</b>	5.7 L (1.5 US gal) and 11.4 L (3 US gal) units <b>Note:</b> <i>Color-pak</i> System is available separately. <i>Limestone Gray</i> colour is available pre-pigmented.
<b>Colour</b>	A wide range of architectural colours are available. Special colours are available on request.
<b>Shelf Life</b>	24 months in original, unopened containers
<b>Storage Conditions</b>	Store dry, at temperatures between 4 °C and 35 °C (40 °F and 95 °F). Condition the product at a temperature between 18 °C and 24 °C (65 °F and 75 °F) before use.

- Chemical cure allows the sealant to be placed in non-moving joints exceeding 13 mm (1/2 in) in depth
- High elasticity with a tough, durable, flexible consistency
- Exceptional cut and tear resistance
- Exceptional adhesion to most substrates without priming
- Available in 35 architectural colours
- Colour uniformity assured via Color-pak system
- Available in pre-pigmented Limestone (no Color-pak needed)
- Self-levelling consistency, easy to apply in horizontal joints
- Easy to mix
- Paintable with water-, oil-, and rubber-based paints
- Jet fuel resistant

### APPROVALS / CERTIFICATES

Meets ASTM C-920, Type M, Grade P, Class 25, use T, NT, M, G, A, O, I.  
Meets Federal Specification TT-S-00227E, Type 1, Class A.

## TECHNICAL INFORMATION

Shore A Hardness	35 ± 5 (21 days)	(ASTM D2240)
Tensile Strength	1206 kPa (175 psi) (21 days)	(ASTM D412)
Elongation at Break	650 % (21 days)	(ASTM D412)
Tear Strength	> 45 lb/in	(ASTM D624)
Chemical Resistance	Good resistance to water, diluted acids, diluted alkalines, and residential sewage. Contact Sika Canada Technical Service for specific data.	
Resistance to Weathering	Excellent	
Service Temperature	-40 °C to +77 °C (-40 °F to +170 °F)	
Adhesion in Peel	Peel Strength (concrete)	Adhesion Loss (ASTM C794)
	9.5 kg (21 lb)	
Tensile Stress at Specified Elongation	689 kPa (100 psi) at 100 % (21 days)	(ASTM D412)

## APPLICATION INFORMATION

Yield	Linear metre of Sealant per Litre			
	Width/Depth	6 mm (1/4 in)	10 mm (3/8 in)	13 mm (1/2 in)
	6 mm (1/4 in)	24.8		
	10 mm (3/8 in)	16.5	11	
	13 mm (1/2 in)	12.4	8.3	6.2
	19 mm (3/4 in)	8.3	5.5	4.1
	25 mm (1 in)			3.1
	32 mm (1.25 in)			2.5
	38 mm (1.5 in)			2.1
Ambient Air Temperature	4 °C to 38 °C (40 °F to 100 °F)			
Substrate Temperature	4 °C to 38 °C (40 °F to 100 °F)			
Curing Time	Tack-free time	6-8 hours		(ASTM C679)
	Final cure	3 days		
Application Time	4 h			(TT-S-00227E)

## BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

Product properties are tested at 23 °C (73 °F) and 50 % R.H. unless stated otherwise.

## LIMITATIONS

The ultimate performance of Sikaflex®-2c SL will depend on good joint design and proper application.

- Minimum depth in working joint is 6 mm (1/4 in).
- Maximum expansion and contraction should not exceed 50 % of average joint width.
- Do allow the product to cure in the presence of curing silicones.
- Avoid contact with alcohol and other solvent cleaners during cure.
- Allow three (3) day cure period before subjecting sealant to total water immersion. Primer is required if sealant will be subjected to total water immersion.
- Avoid exposure to high levels of chlorine. Maximum level permitted is 5 ppm.
- Do not apply when moisture vapour transmission exists since this can cause bubbling within the sealant.
- Avoid over-mixing sealant.
- White colours tend to yellow slightly when exposed to

- ultraviolet rays.
- Light colours can yellow if exposed to direct gas-fired heating elements.
- When overcoating, on-site tests are recommended to determine actual compatibility.
- Rigid paints, coatings or primers will crack when placed over elastomeric sealants experiencing expansion or contraction.
- Minimum depth of sealant in horizontal joints subject to traffic: 13 mm (1/2 in)
- Do not tool with detergent or soap solution.

## ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

Joint wall surfaces must be clean, structurally sound, and frost-free. Joint walls must be free of oils, grease, curing compound residues, and any other foreign matter that might prevent bond.

### SUBSTRATE PREPARATION

Substrate preparation should be accomplished by mechanical means. A roughened surface will also enhance bond. Bond breaker tape or backer rod must be used in bottom of joint to prevent three-sided bond.

**Note:** Joint dimension should allow for 6 mm (1/4 in) minimum and 13 mm (1/2 in) maximum thickness for sealant. Proper design is 2:1 width to depth ratio.

Priming is typically not necessary. Most substrates only require priming if sealant will be subjected to water immersion after cure. Testing should be carried out, however, on questionable substrates, to determine if priming is needed, contact Sika Canada Technical Service or refer to Sikaflex® Primer Product Data Sheet for additional information on priming.

### MIXING

Pour entire contents of Component B into pail of Component A. Add entire contents of Color-pak into pail and mix at low-speed (400–600 rpm) using a drill fitted with a proper mixing paddle. Mix product for three (3) to five (5) minutes to achieve a uniform colour and consistency\*. Scrape down sides of pail periodically. Avoid entrapment of air during mixing. Color-pak system must be used with tint base.

**Note:** When mixing a 3 US gallon unit, two (2) containers of Component B and two (2) color-paks must be used.

*\*For pre-pigmented Limestone base, just mix with low speed drill and proper mixing paddle (no Color-pak needed).*

## APPLICATION METHOD / TOOLS

### Application recommendations

For application under optimal conditions, the recommended application temperatures are between 4 °C and 38 °C (40 °F and 100 °F). When used in extreme conditions, units must be conditioned prior to use at a temperature between 18 °C and 25 °C (65 °F and 75 °F). Move pre-conditioned units to work areas just prior to application. Sikaflex®-2c SL must be applied only to clean, sound, dry, and frost-free substrates. Sikaflex®-2c SL should be applied into joints when joint slot is at mid-point of its designed expansion and contraction.

### Application

Apply Sikaflex®-2c SL in one direction and allow it to flow and level as necessary. If extruding, load mixed sealant directly into bulk gun or use follower plate loading system. Place nozzle of gun into bottom of joint and fill entire joint. Keeping the nozzle immersed deep in the sealant, continue applying with a steady flow of sealant preceding nozzle to avoid air entrapment. Avoid overlapping of sealant in order to prevent air entrapment in the material.

### Tooling and Finishing

Tool Sikaflex®-2c SL as necessary.

### CLEAN UP

Uncured material can be removed from equipment and tools using Sika Cleaning Wipes or a solvent, such as xylene. Strictly follow solvent manufacturer's warnings and instructions for use. Cured material can only be removed manually or mechanically.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

### **Sika Canada Inc.**

Head Office  
601, avenue Delmar  
Pointe-Claire, Quebec  
H9R 4A9  
1-800-933-SIKA  
[www.sika.ca](http://www.sika.ca)

### **Other locations**

Boisbriand (Quebec)  
Brantford; Cambridge;  
Sudbury; Toronto (Ontario)  
Edmonton (Alberta)  
Surrey (British Columbia)

### **Product Data Sheet**

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