

# Sikaflex® Construction Sealant

## One-Component, All-Purpose, Polyurethane Sealant

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| <b>Description</b>  | Sikaflex® Construction Sealant is a moisture cured, one component, polyurethane-based, non-sag elastomeric sealant.  |
| <b>Where to Use</b> | <ul style="list-style-type: none"> <li>■ Designed for all types of joints where maximum depth of sealant will not exceed 13 mm (1/2 in).</li> <li>■ Suitable for vertical and horizontal joints; readily applied at 4°C (39°F). Has many applications as an elastic sealant between materials with dissimilar coefficients of expansion.</li> <li>■ Ideal for:             <ul style="list-style-type: none"> <li>Weatherproofing of joints between brickwork, blockwork, masonry, wood and concrete or metal frames.</li> <li>Joints in walls, floors, balconies, around window or door frames.</li> <li>Expansion joints.</li> <li>Roofing.</li> </ul> </li> </ul>   |
| <b>Advantages</b>   | <ul style="list-style-type: none"> <li>■ High elasticity - cures to a tough, durable, flexible consistency with exceptional cut and tear resistance.</li> <li>■ Stress relaxation.</li> <li>■ Excellent adhesion - bonds to most construction materials without a primer.</li> <li>■ Excellent resistance to aging, weathering.</li> <li>■ Non-staining.</li> <li>■ Urethane-based; suggested by EPA for radon reduction.</li> <li>■ Can be painted over with water, oil and rubber-based paints.</li> <li>■ Capable of ± 25% joint movement.</li> <li>■ NSF-ANSI 61 potable water contact-approved formula available by special order only.</li> <li>■ Meets Federal specification TT-S-00230C, Type II.</li> <li>■ Meets ASTM C 920, Type S, Grade NS.</li> <li>■ Meets CAN CGSB-19.13-M87.</li> </ul> |

### Technical Data

|   |   |                  |
|---|---|------------------|
| <b>Packaging</b>                              | 300 mL (10.1 fl. oz) cartridge (12/case) 17 L (4.5 US gal.) pail  |                  |
| <b>Colours</b>                                | White, Aluminum Grey, Limestone and Dark Bronze.  |                  |
| <b>Yield</b>                                  | <b>Linear Meter of Sealant per Liter</b>  |                  |
| <b>Width</b>                                  | <b>Depth</b>  |                  |
| <b>mm (in)</b>                                | <b>6 (¼)</b>  | <b>13 (½)</b>    |
| 6 (¼)   | 24.8  |                  |
| 13 (½)  | 12.4  | 6.2              |
| 19 (¾)  | 8.3   | 4.1              |
| <b>Shelf Life</b>                             | <b>300 mL cartridge:</b> 15 months;<br><b>17 L pail:</b> 6 months - in original, unopened packaging.<br>Store dry between at 4° - 35°C (39° - 95°F). Condition product to 18° - 30°C (65° - 86°F) before using. |                  |
| <b>Properties at 23°C (73°F) and 50% R.H.</b> |   |                  |
| <b>Application Temperature</b>                | 4° - 38°C (39° - 100°F) Sealant should be installed when joint is at midrange of its anticipated movement.  |                  |
| <b>Service Range</b>                          | -40° - 77°C (-40° - 170°F)  |                  |
| <b>Curing Rate ASTM C 679</b>                 | Tack-free time  | Meets ASTM C 920 |
|   | Final cure  | 7 days           |
| <b>Shore A Hardness</b>                       | Meets ASTM C 920  |                  |
| <b>Adhesion in Peel ASTM C 794</b>            |   |                  |
| <b>Concrete</b>                               | Meets ASTM C 920  |                  |
| <b>Aluminum</b>                               | Meets ASTM C 920  |                  |
| <b>Glass</b>                                  | Meets ASTM C 920  |                  |
| <b>Weathering Resistance</b>                  | Excellent   |                  |
| <b>Chemical Resistance</b>                    | Good resistance to water, diluted acids, and diluted alkalines.   |                  |
| <b>VOC (EPA Method 24)</b>                    | 38 g/L  |                  |



## How to Use

### Surface Preparation

All joint interfaces must be clean, sound, and frost-free. Joint interfaces must be free of oils, grease, curing compound residues, and any other foreign matter that might prevent bond. Ideally this should be accomplished by mechanical means. Bond breaker tape or backer rod must be used in bottom of joint to prevent bond.

### Priming

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

### Application

Recommended application temperatures between 4° - 38°C (39° - 100°F). For cold-weather application, store units at approximately 21°C (70°F) remove just prior to using. Make sure joint is frost-free. Cut plastic tip on cartridge to desired joint size. Puncture airtight seal at base of tip. Place nozzle of gun into bottom of joint and fill entire joint. Keeping the nozzle deep in the sealant, continue with a steady flow of sealant preceding nozzle to avoid air entrapment. Also, avoid overlapping of sealant since this also entraps air. Tool as required. Proper joint design for moving joints is 2:1 width to depth ratio, with a recommended 6 mm (1/4 in) minimum and 13 mm (1/2 in) maximum depth of sealant. For non-moving joints, the width to depth ratio can vary. Install with hand or power operated caulking gun. For best performance, Sikaflex® Construction Sealant should be gunned into joint when joint slot is at mid-point of its designed expansion and contraction.

### Clean Up

Uncured material can be removed with Sika® Equipment Cleaner/Epoxy Thinner or Sika® Hand Cleaner. Cured material can only be removed mechanically.

### Limitations

- Allow 1 week to cure under standard conditions when using Sikaflex® Construction Sealant in total water immersion situations and prior to painting.
- When over-coating with water-, oil- and rubber- based paints, compatibility and adhesion tests are essential.
- Avoid exposure to high levels of chlorine. (Maximum continuous level is 5 ppm of chlorine.)
- Maximum depth of sealant must not exceed 13 mm (1/2 in); minimum depth is 6 mm (1/4 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 a moisture-vapour-transmission condition exists from the substrate as this can cause bubbling within the sealant.
- Use opened cartridges the same day.
- When applying sealant, avoid air-entrapment.
- Since system is moisture-cured, permit sufficient exposure to air.
- White colour tends to yellow slightly when exposed to ultraviolet rays.
- The ultimate performance of Sikaflex® Construction Sealant depends on good joint design and proper application with joint surfaces properly prepared.
- Some substrates require priming. Please refer to the Sikaflex® Primers Technical Data Sheet or consult with Sika Technical Services.
- The depth of sealant in horizontal joints subject to traffic is 13 mm (1/2 in).
- Do not tool with detergent or soap solutions.

### Caution

Avoid contact with skin. Wash hands thoroughly with warm water and soap. According to FHSLA Toxicity rating, Sikaflex® Construction Sealant is a skin irritant, an eye irritant, not toxic orally, not toxic by inhalation and not toxic dermally. Consult product label for additional information.

### First Aid

In case of skin contact, wash with soap and water. For eye contact flush immediately with plenty of water for at least 15 min. Contact a physician. For respiratory problems, transport victim to fresh air. Remove contaminated clothing and wash before re-use.

For more information, consult Sika Material Safety Data Sheet.

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

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, within their shelf life. 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed in the Internet under [www.sika.ca](http://www.sika.ca).

**Sika Canada Inc.**  
601 Delmar Avenue  
Pointe-Claire, QC H9R 4A9  
Tel.: 514-697-2610  
Fax: 514-697-3087

**Ontario**  
6915 Davand Drive  
Mississauga, ON L5T 1L5  
Tel.: 905-795-3177  
Fax: 905-795-3192

**Alberta**  
18131-114th Avenue N.W.  
Edmonton, AB T5S 1T8  
Tel.: 780-486-6111  
Fax: 780-483-1580

**1-800-933-SIKA**  
[www.sika.ca](http://www.sika.ca)

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