

## Sikaflex® 1a

PREMIUM-GRADE,  
POLYURETHANE  
JOINT-SEALANT



## For water-proof joints – from roof to reservoir

Sikaflex® 1a is a universally-recognized, versatile, gun-grade caulking compound designed to seal all types of joints. It features high bond characteristics, expansion capabilities of up to 35%, and the ability to accommodate materials with dissimilar thermal co-efficiencies. This one-part, easy-to-install and highly adhesive sealant is ideal for sealing window and door frames and for weatherproofing many types of moving and non moving joints. Its advantages include:

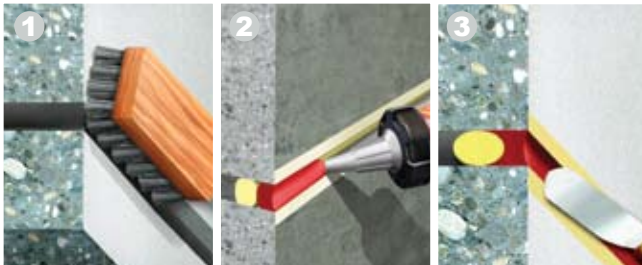
- Single-component material supplied in foil uni-packs – no mixing required;
- Extremely low odour and low VOC;
- Suitable for contact with potable water;
- Excellent adhesion to most building materials without primer, and in submerged applications.
- Non-staining – suitable even for high-end, architectural-grade materials;
- Permanently and highly elastic with exceptional cut- and tear-resistance;
- Excellent resistance to aging, weathering, fuel and oil;
- Satisfies government and industry standards and specifications.



# Sikaflex® 1a DURABLE JOINT SEALANT

Sikaflex® reflects Sika's international reputation for high-quality, top performance polyurethane sealing and bonding materials. Introduced in 1968 to overcome issues associated with other sealants – the need for primers, on-site mixing quality-control issues, bond-face stress issues, aging, embrittlement and premature failure -- this technology today possesses a successful 40-year track record.

## INSTALLATION GUIDE



- 1** All joints must be clean, dry, sound and free from matter which would prevent or reduce adhesion. Consult the Sikaflex® Primers Product Data Sheet for information relative to the possible need for a primer. **Moving joints** must respect a 2:1 width to depth ratio, with 6 mm (1/4 in) minimum depth and 13 mm (1/2 in) maximum depth of sealant. Bond-breaker tape or compressible backer rod must be placed at the bottom of the joint.
- 2** Insert cartridge into a hand- or power-operated caulking gun; cut plastic tip on cartridge to desired joint size, and puncture airtight seal at base of tip;
- 3** Place nozzle of gun into depth of joint and gun sealant to fill entire joint; leave the tip of the cartridge in the sealant as you continue to steadily gun the sealant, to avoid entrapping air. Tool wet sealant by appropriate means to ensure contact with joint walls, to create a correct joint design and to achieve a suitable finish.

**Note:** For full instructions, refer to the Sikaflex® 1a Product Data Sheet

## TECHNICAL DATA

- Recommended Application Temperature
  - 4° to 38°C (39° to 100°F)
- Consumption
  - 1 ltr of sealant (3.5 x 300 ml cartridges or 1.5 x 590 ml uni-packs) per 12.5 linear meter (112 linear feet) run.
- Tear Strength ASTM D 624
  - 8.5N/mm (50 lb/in)
- Shore A Hardness ASTM D 2240
  - at 21days 40 + 5
- Tensile Properties ASTM D 412 at 21days
  - Tensile stress 1.37 MPa (200 psi)
  - Elongation at break 500%
- Adhesion in Peel TT-S-00230C, ASTM C 794
  - 3.4 N/mm (20 lb) 0% adhesion loss
- VOC Content (EPA Method 24)
  - < 50 g/l

## APPROVALS & SPECIFICATIONS

- ANSI/NSF 61 approved for contact with potable water
- USDA, CFIA approved for incidental contact with food
- Road Authority approved
- Ministère des Transports du Québec accepted
- SWRI validated

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 Product 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).

## TYPICAL APPLICATIONS

### WEATHER-PROOFING OF JOINTS IN

- concrete
- brickwork
- blockwork
- masonry
- wood
- metal

### WATER-PROOFING OF JOINTS IN

- walls
- floors
- frames
- balconies
- roofs
- reservoirs

To receive advice on concrete repairs, crack injection and protective coatings, please contact Sika Technical Services.



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