

## PRODUCT DATA SHEET

# Sika® Injection-101 US

Expanding Polyurethane Injection Foam Used for Watertight Sealing

### PRODUCT DESCRIPTION

Sika® Injection-101 US is a 2-part, polyurethane, low viscous, fast foaming, water-reactive injection resin. It cures to a dense flexible foam.

### WHERE TO USE

Sika® Injection-101 US may only be used by experienced professionals.

- Waterstopping of high water intrusions in cracks, joints and cavities in concrete and masonry.
- Waterstopping in special applications such as bored or sheet pile walls, anchor heads and microtunneling.

### CHARACTERISTICS / ADVANTAGES

- Foaming reaction only takes place in direct contact with water.
- Can be injected as a single component system.
- Free foaming expansion up to 40 times.
- The reaction rate (foam formation) is influenced by the temperature of the mixed materials, by the type of structure, contact with water, and hydrodynamic conditions.

### PRODUCT INFORMATION

|                             |                                                                                                                                                                         |                           |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Composition / Manufacturing | Water-reactive polyurethane resin                                                                                                                                       |                           |
| Packaging                   | Part A (Resin)                                                                                                                                                          | 6.77 L (1.79 gal)         |
|                             | Part B (Hardener)                                                                                                                                                       | 6.77 L (1.79 gal)         |
|                             | Refer to current price list for packaging variations.                                                                                                                   |                           |
| Colour                      | Part A                                                                                                                                                                  | Colorless                 |
|                             | Part B                                                                                                                                                                  | Brown                     |
| Shelf Life                  | 12 months from date of production                                                                                                                                       |                           |
| Storage Conditions          | The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between 5 and 35°C (40 and 95°F). Always refer to packaging. |                           |
| Density                     | Part A                                                                                                                                                                  | ~1.04 kg/L (8.67 lb/gal)  |
|                             | Part B                                                                                                                                                                  | ~1.24 kg/L (10.34 lb/gal) |
| Values at 23 °C (73 °F)     |                                                                                                                                                                         |                           |

|                         |                   |         |
|-------------------------|-------------------|---------|
| Viscosity               | Part A (Resin)    | ~230 cP |
|                         | Part B (Hardener) | ~290 cP |
| Values at 23 °C (73 °F) |                   |         |

## TECHNICAL INFORMATION

|                         |                 |                                      |
|-------------------------|-----------------|--------------------------------------|
| Expansion               | Expansion start | ~16 seconds after contact with water |
|                         | Expansion end   | ~70 seconds                          |
| Values at 23 °C (73 °F) |                 |                                      |

## APPLICATION INFORMATION

|                         |                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------|
| Mixing Ratio            | Part A : Part B = 1:1 by volume                                                                    |
| Ambient Air Temperature | 5 °C (40 °F) min. / 35 °C (95 °F) max.                                                             |
| Substrate Temperature   | 5 °C (40 °F) min. / 35 °C (95 °F) max.                                                             |
| Pot Life                | ~1 hours (at 21 °C (70 °F))<br>If skin forms on the surface of the product, remove it. Do not mix. |

## 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.

## LIMITATIONS

- Remove any skin formation on the resin or hardener from the surface. Do not mix back into the liquids.

## 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

### MIXING

Add components A and B into an appropriate container and mix them slowly for 30 seconds until a homogeneous mixture is obtained, observing safety precautions. The product is supplied in packages with the indicated mixing ratio of 1:1 by volume.

Partial quantities can be measured and placed in separate containers. After mixing, pour the material into the pump's feed container, stir briefly, and use within the pot life.

## APPLICATION METHOD / TOOLS

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Use injection pumps suitable for single part injection products.

### CLEAN UP

Clean all tools and application equipment using the Xylene to remove polyurethane residues immediately after use. Do not leave the cleaner in the injection pump. Strictly follow solvent manufacturer's warnings and instructions for use. The cured / hardened product can only be removed 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)

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**Product Data Sheet**

Sika® Injection-101 US  
February 2026, Version 02.02  
020707010010000064

SikaInjection-101US-en-CA-(02-2026)-2-2.pdf

