

## 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.

### USES

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

<b>Chemical Base</b>	Water reactive polyurethane resin	
<b>Packaging</b>	Part A (Resin)	1.79 gal
	Part B (Hardener)	1.79 gal
	Refer to current price list for packaging variations.	
<b>Color</b>	Part A	Colorless
	Part B	Brown
<b>Shelf Life</b>	12 months from date of production	
<b>Storage Conditions</b>	The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +40 °F and +95 °F. Always refer to packaging.	
<b>Density</b>	Part A	~8.67 lb/gal
	Part B	~10.34 lb/gal
	Values at +73 °F	

<b>Viscosity</b>	Part A (Resin)	~230 cP
	Part B (Hardener)	~290 cP
Values at +73 °F		

## TECHNICAL INFORMATION

<b>Expansion</b>	Expansion start	~16 seconds after contact with water
	Expansion end	~70 seconds
Values at +73 °F		

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Part A : Part B = 1:1 by volume
<b>Ambient Air Temperature</b>	+40 °F min. / +95 °F max.
<b>Substrate Temperature</b>	+40 °F min. / +95 °F max.
<b>Pot Life</b>	~1 hours (at + 70 °F) If skin forms on the surface of the product, remove it. Do Not Mix.

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## CLEANING OF TOOLS

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. The cured / hardened product can only be removed mechanically.

## LIMITATIONS

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

## ENVIRONMENTAL, HEALTH AND SAFETY

## 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.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA’s Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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### Product Data Sheet

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