

# PRODUCT DATA SHEET

## Sika® Injection-307

### ELASTIC POLYACRYLIC INJECTION RESIN USED FOR PERMANENT WATERTIGHT SEALING

#### PRODUCT DESCRIPTION

Sika® Injection-307 is a very low viscous, elastic polyacrylic injection resin with a versatile and adjustable reaction time.

#### USES

- Sika® Injection-307 may only be used by experienced professionals.
- Sika® Injection-307 is used for crack and joint injection
  - Sika® Injection-307 is used for the injection of SikaFuko® injection hoses to seal construction joints
  - Sika® Injection-307 is used to seal water-bearing cracks and voids
  - Sika® Injection-307 is used for making new sealing walls (curtains) in damp or water saturated ground conditions, situated in close proximity to the building component or within the building structure
  - Sika® Injection-307 is used as a post-construction, external injection sealing system for construction and limited movement expansion or drainage pipe joints, that are, or will be, covered with damp or water saturated soil
  - Sika® Injection-307 can also be used for the repair by injection of damaged waterproofing membranes (single and double layer system)

#### CHARACTERISTICS / ADVANTAGES

- Providing passivating environment for embedded steel reinforcement
- Adjustable curing time between 5 and 50 minutes
- Permanently elastic, can absorb limited movements
- Capable of reversibly absorbing (swelling) and releasing (shrinking) moisture
- Solvent free acrylic resin
- Very low viscosity comparable to water
- Cured Sika® Injection-307 is insoluble in water and hydrocarbons and resistant to alkalis.

## PRODUCT INFORMATION

<b>Chemical Base</b>	3-part polyacrylic resin		
<b>Packaging</b>	Sika® Injection-307 SET "Ready to use" contains:		
	Component A (Resin)	2 × 9,6 kg	
	Accelerator Component A1	1 × 1,05 kg	
	Component B	4 × 0,4 kg	
<b>Color</b>	Component A (Resin)	blue – transparent	
	Accelerator Component A1	yellow – transparent	
	Component B	white	
<b>Shelf Life</b>	12 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.		
<b>Storage Conditions</b>	Dry storage at temperatures from +10 °C up to +30 °C. Protect from direct sunlight and humidity.		
<b>Density</b>	Component A (Resin)	~1,073 g/cm <sup>3</sup>	(EN ISO 2811-2)
	Accelerator Component A1	~1,052 g/cm <sup>3</sup>	(at 20 °C)
	Component B	~2,100 g/cm <sup>3</sup>	
<b>Viscosity</b>	3,8 mPa·s (mixture, at 20 °C)		(EN ISO 3219)

## APPLICATION INFORMATION

Mixing Ratio	ml Accelerator - Ambient Temperature				
	5 °C (41 °F)	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
Reaction time					
5 min	-	1000*	750*	725*	700*
10 min	1000*	875*	500	490	480
20 min	620*	570*	375	340	250
30 min	545*	500	310	250	215
40 min	510*	450	270	225	200
50 min	475	440	260	210	170

Quantity of Accelerator per 9.6 kg component A, to yield 20 litres mixed resin. The total Accelerator solution must always be 1000 ml – see example below.

\* reaction at cold temperatures – more accelerator than included in the set is required.

### Note for processing in one component pumps

Workability time (pot life) = Reaction time (see metering chart) – 10 minutes

### Example

Ambient temperature: 20 °C (68 °F)

Required reaction time: 30 min.

Accelerator = 310 ml

Water = 690 ml

Total volume = 1000 ml

Note:

The given data are laboratory parameters and may deviate depending on the object and conditions on site. Reaction time measured in 100ml specimen.

<b>Coverage</b>	~ 40 litres per Sika® Injection-307 SET
<b>Ambient Air Temperature</b>	+5 °C min. / +40 °C max.
<b>Substrate Temperature</b>	+5 °C min. / +40 °C max.

## APPLICATION INSTRUCTIONS

### MIXING

#### 1. Prepare Hardener Solution

Pour 10 litres of water in a clean container. Dissolve the content of 2 bags (total 800 g) of Component B in the water. Stir the hardener solution thoroughly until Component B is completely dissolved.

#### 2. Prepare Accelerator Solution

Determine the required quantity of accelerator from the chart provided under mixing ratio, based on ambient processing temperature and required reaction time.

Dilute the selected quantity of accelerator with water, to a total quantity of 1 litre accelerator solution.

#### 3. Mix Accelerator Solution with Resin Component A

Pour the 1 litre of accelerator solution into one 9.6 kg canister of Component A and shake/mix thoroughly.

#### 4. Mix Resin with Hardener

Depending on the type of injection pump used activate the injection resin using one of the methods below:

- One component pump: Pour partial amount of the pre-mixed components in a ratio of 1:1 by volume into a clean mixing container. Mix thoroughly using an electric mixer and fill into the storage container of the pump.
- Two component pump: Fill partial amount of the pre-mixed components into the storage container of the pump. Set the pump to work at a ratio of 1:1 by volume.

### APPLICATION METHOD / TOOLS

Sika® Injection-307 can be used with normal one or two component injection pumps.

### CLEANING OF TOOLS

Clean all tools and application equipment according to the Product Data Sheet for the Sika® Injection Cleaning System.

### LIMITATIONS

- Sika® Injection-307 must be used in below ground structures.
- Contact Sika technical service for specific information on resistance to hydrocarbons or chemicals.

## 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.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## 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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**Sika Corporation**  
201 Polito Avenue  
Lyndhurst, NJ 07071  
Phone: +1-800-933-7452  
Fax: +1-201-933-6225  
[usa.sika.com](http://usa.sika.com)

**Sika Mexicana S.A. de C.V.**  
Carretera Libre Celaya Km. 8.5  
Fracc. Industrial Balvanera  
Corregidora, Queretaro  
C.P. 76920  
Phone: 52 442 2385800  
Fax: 52 442 2250537



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