



PRODUCT DATA SHEET

Edition 010.2019/v1
CSC Master Format™ 03 64 00
INJECTION GROUTING

Sika® Injection-307

ELASTIC POLYACRYLIC INJECTION RESIN USED FOR PERMANENT WATERTIGHT SEALING

Description	Sika® Injection-307 is a very low viscosity, elastic polyacrylic injection resin with a versatile and adjustable reaction time.		
Where to Use	Sika® Injection-307 can be used in the following applications: <ul style="list-style-type: none"> ▪ Crack and joint injection ▪ Injection of SikaFuko® injection hoses to seal construction joints ▪ Sealing water-bearing cracks and voids ▪ 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 ▪ 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 ▪ Repair by injection of damaged waterproofing membranes (single and double layer system) 		
Advantages	<ul style="list-style-type: none"> ▪ Providing passivizing 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 ▪ Insoluble in water and hydrocarbons and resistant to alkalis when cured 		
Technical Data			
Packaging	Component A (Resin)	2 x 9.6 kg	
	Component A1 (Accelerator)	1 x 1.05 kg	
	Component B	4 x 0.40 kg	
Chemical Base / Composition	3-part polyacrylic resin		
Colour	Component A (Resin)	Blue - transparent	
	Component A1 (Accelerator)	Yellow - transparent	
	Component B	White	
Yield	~ 40 L per Sika® Injection-307 Set		
Shelf Life	12 months from date of production if stored properly in unopened, undamaged and original sealed packaging. Store in dry conditions, protected from direct sunlight and humidity at temperatures between 10 - 30 °C (50 - 86 °F).		
Application Temperature (ambient & substrate)	5 °C (41 °F) min. / 40 °C (104 °F) max.		
Reaction/Gel Time	5 to 50 minutes		

Properties at 20 °C (68 °F)**Density (EN ISO 2811-2)**

Component A (resin)	~ 1.073 g/cm ³
Component A1 (Accelerator)	~ 1.052 g/cm ³
Component B	~ 2.100 g/cm ³

Viscosity (EN ISO 3219)

3.8 mPa·s (mixed)

Mixing Ratio**Accelerator (mL) Ambient Temperature**

Reaction time	5 °C (41 °F)	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
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 L 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 single-component pumps :

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

Example:

- Ambient temperature: 20 °C (68 °F)

- Required reaction time: 30 minutes

- 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 100 mL specimen.

VOC Content

Contact Sika Canada

Chemical Resistance

Contact Sika Canada for specific information on resistance to hydrocarbons or other chemicals

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.

HOW TO USE**Mixing****1. Prepare Hardener Solution**

Pour 10 L of potable water in a clean container. Dissolve the content of two (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 L accelerator solution.

3. Mix Accelerator Solution with Resin Component A

Pour the 1 L of accelerator solution into one (1) 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 premixed 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 premixed components into the storage container of the pump. Set the pump to work at a ratio of 1:1 by volume.

Limitations

- Sika® Injection-307 may only be used by experienced professionals.
- Always use potable water for mixing.
- Sika® Injection-307 must be used in below ground structures.

Clean Up

Uncured material can be removed with water immediately after use. Cured product can only be removed mechanically. Clean soiled hands and skin thoroughly in hot soapy water or use Sika Hand Cleaner towels.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

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 shelflife. 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

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Certified ISO 9001 (CERT-0102780)
Certified ISO 14001 (CERT-0102791)