

PRODUCT DATA SHEET

Sika® Injection-307

Polyacrylic elastic injection resin for permanent watertight sealing

PRODUCT DESCRIPTION

Sika® Injection-307 is a polyacrylic, 3-part acrylate based injection resin with a very low viscosity and adjustable reaction time

USES

Sika® Injection-307 may only be used by experienced professionals.

The Product is designed for:

- Crack and joint injection
- Injection of SikaFuko® injection hoses to seal construction joints
- Sealing water-bearing cracks and voids
- Sealing all types of leaking building components in damp or water saturated ground conditions
- Sealing leaks where there is some minor movement
- Sealing drainage pipe joints, that are covered with damp or water saturated soil
- Injection repair of damaged waterproofing membranes (single and double layer systems)

PRODUCT INFORMATION

Chemical Base	3-part polyacrylic resin	
Packaging	Ready to use kit	
	Part A (Resin)	2 × 9.6 kg container
	Part A1 (Accelerator)	1 × 1.05 kg container
	Part B (Hardener)	2 × 0.8 kg container
	Alternative Pallet Set (equivalent to 36 × ready-to-use-kits):	
	Part A (Resin)	36 × 19.2 kg container
Part A1 (Accelerator)	36 × 1.05 kg container	
Part B (Hardener)	72 × 0.8 kg container	

CHARACTERISTICS / ADVANTAGES

- Provides a passivating environment for embedded steel reinforcement
- Adjustable curing time between 10 and 50 minutes
- Permanently elastic
- Capable of reversibly absorbing (swelling) and releasing (shrinking) moisture
- Very low viscosity comparable to water
- After curing the Product is insoluble in water and hydrocarbons and resistant to alkalis

APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 1504-5:2004 Products and systems for the protection and repair of concrete structures — Concrete injection
- Water Tightness Building Regulations List A, SikaFuko® VT-1, WISSBAU, Test report

Refer to the current price list for available packaging variations.

Shelf Life	12 months from date of production		
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +30 °C. Protect Part B from frost. Always refer to packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.		
Color	Part A (Resin)	Blue transparent - liquid	
	Part A1 (Accelerator)	Yellow transparent - liquid	
	Part B (Hardener)	White powder	
Density	Part A (Resin)	1.073 kg/l	(EN ISO 2811-2)
	Part A1 (Accelerator)	1.040 kg/l	
	Part B (Hardener)	2.100 kg/l	
Viscosity	3.8 mPa·s (complete mixture +20 °C)		(EN ISO 3219)

APPLICATION INFORMATION

Mixing Ratio	Accelerator metering chart by ambient temperature per 9.6 kg of Part A resin.					
	Reaction time	+5 °C (+41 °F)	+15 °C (+59 °F)	+22 °C (+72 °F)	+30 °C (+86 °F)	+40 °C (+104 °F)
	10 min	1170 ml	650 ml	440 ml	360 ml	250 ml
	20 min	750 ml	440 ml	340 ml	290 ml	200 ml
	30 min	590 ml	390 ml	290 ml	250 ml	170 ml
	40 min	550 ml	350 ml	260 ml	230 ml	160 ml
	50 min	520 ml	330 ml	230 ml	210 ml	140 ml
	The Accelerator is diluted in water so that the total Accelerator solution is 1000 ml. Example of a mix calculation for ~ 20 litres of mixed resin.					
	Ambient temperature	+22 °C (+72 °F)				
	Required reaction time	30 min				
	Part A	9.6 kg				
	Accelerator solution	290 ml Accelerator				
	(Part A1 + water)	710 ml water				
	Part B solution	0.8 kg dissolved in 10 L of water				
Coverage	~ 40 litres per kit					
Product Temperature	Maximum	+40 °C				
	Minimum	+5 °C				
Ambient Air Temperature	Maximum	+40 °C				
	Minimum	+5 °C				
Substrate Temperature	Maximum	+40 °C				
	Minimum	+5 °C				
Pot Life	When using one component pumps pot life or workability is 0.8 × Reaction time. Refer to Table 1 Accelerator metering chart in the Mixing Ratio section.					
Cure Time	60 minutes					
Gel time	10-50 minutes					

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.

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.

APPLICATION INSTRUCTIONS

MIXING

PREPARE PART B SOLUTION

1. Pour 10 litres of water in a clean container.
2. Add 1 bag (800 g) of Part B to the water and mix thoroughly with a low speed mixer until Part B is completely dissolved.

PREPARE ACCELERATOR SOLUTION

1. Determine the required quantity of accelerator (Part A1). Refer to the Accelerator metering chart in the Mixing Ratio section.
2. Dilute the selected quantity of accelerator with water to a total quantity of 1 litre accelerator solution.

MIX ACCELERATOR SOLUTION INTO PART A RESIN

1. Pour the 1 litre of accelerator solution into 1 × 9.6 kg container of Part A and shake to mix thoroughly.

MIX RESIN SOLUTION AND HARDENER SOLUTION

One component pump:

1. At a ratio of 1:1 by volume, pour the resin solution and hardener solution into a clean mixing container.
2. Mix thoroughly with a mixer and pour into the hopper of the pump.

Two component pump:

1. Pour the resin solution into the hopper of the pump's 'A' side.
2. Pour the hardener solution into the hopper of the pump's 'B' side.
3. Pump the Product at a ratio of 1:1 by volume.

APPLICATION

IMPORTANT

Environmental considerations

Failure to properly assess the jobsite and the scope of the application can lead to a loss of Product performance.

1. Survey the jobsite to assess foundations and ground conditions before carrying out curtain injection in close proximity to or within existing structures.
2. Check to make sure there are no open pipes or drainage systems close to injection areas.
3. Prior to use check the Product's gel time within the local site ambient conditions.
4. Contact Sika technical services for specific information on resistance to hydrocarbons or chemicals.

Reference must be made to further documentation where applicable, such as relevant method statements, application manuals and installation or working instructions.

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

CLEANING OF TOOLS

Clean all tools and application equipment with water.

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 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.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended

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Product Data Sheet

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