BUILDING TRUST

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)

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 repor

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
	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.

Colour

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 (Part A1 + water)	290 ml Accelerator 710 ml water
Part B solution	0.8 kg dissolved in 10 L of water

Yield

~ 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.

Curing Time

60 minutes

Gel time

10-50 minutes

VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND 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

PREPARE PART B SOLUTION
1. Pour 10 litres of water in a clean container.
2. Add1 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 in accordance with the Product Data Sheet for the ‘Sika® Injection Cleaning System’.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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 written recommendations, or from any other advice offered. The user of the product must test the product’s suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. 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.

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