BUILDING TRUST

PRODUCT DATA SHEET

Sika® Injection-307

Polyacrylic elastic injection resin for permanent watertight sealing

AVAILABLE ON INDENT ORDER ONLY

DESCRIPTION

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

USES

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

- 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, or will be, 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, can absorb limited movements
- Capable of reversibly absorbing (swelling) and releasing (shrinking) moisture
- Very low viscosity comparable to water
- Cured Sika® Injection-307 is insoluble in water and hydrocarbons and resistant to alkalis.

APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN 1504-5 - Concrete injection
- Watertightness test,EN14068,MPA,Report No.1201/011/16b
- Corrosion test on steel,EN480-14,RWTH Aachen,Passivation Report No.M2208 and M2378
- Function test in combination with SikaFuko VT-1 PB-2016-204,Wissbau Essen
- Compatibility tests on PVC/TPO Membranes, EN12637-3, MPA,Report No.1200/554/17

PRODUCT INFORMATION

Product Declaration	EN 1504-5:Concrete injection	
Chemical Base	3-part polyacrylic resin	
Packaging	Ready to use kit:	
	Part A (Resin)	2 × 9.6 kg
	Part A1 (Accelerator)	1 × 1.05 kg
	Part B	4 × 0.4 kg
	Separate bulk parts:	
	Part A (Resin)	1 × 19.2 kg
	Part A1 (Accelerator)	1 × 5.25 kg
	Part B	36 × 0.4 kg

	Refer to current price list for 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. Always refer to packaging.

Colour	Part A (Resin)	blue – transparent liquid
	Part A1 (Accelerator)	yellow – transparent liquid
	Part B	white - powder

Density	Part A (Resin)	~1,073 g/cm³	(EN ISO 2811-2) (at +20 °C)
	Part A1 (Accelerator)	~1,040 g/cm³	
	Part B	~2,100 g/cm³	

Viscosity	3.8 mPa·s (complete mixture +20 °C)	(EN ISO 3219)

APPLICATION INFORMATION

Mixing Ratio

Table 1
Accelerator Metering Chart

	Ambient Temperature and Accelerator quantity (ml)				
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*	650*	440	360	250
20 min	750*	440	340	290	200
30 min	590*	390	290	250	170
40 min	550*	350	260	230	160
50 min	520*	330	230	210	140

* reaction at cold temperatures – more accelerator (A1) is required than is supplied in the kit.
The quantity in Table 1 of accelerator (A1) per 9.6 kg of resin (A), will yield ~20 litres of mixed resin. The total Accelerator solution must always be 1000 ml (refer to example below).

Example
Ambient temperature: +22 °C (+72 °F)
Required reaction time: 30 min.
Accelerator = 290 ml
Water = 710 ml
Total volume = 1000 ml

Note:
1) When using one component pumps: Workability time (pot life) = Factor 0.8 x Reaction time (refer to metering chart)
2) The given data are laboratory parameters and may deviate depending on the situation and conditions on site. Reaction time measured in 100ml specimen.

Yield	~ 40 litres per kit
Ambient Air Temperature	+5 °C min. / +40 °C max.
Substrate Temperature	+5 °C min. / +40 °C max.
Gel time	10–50 minutes

BASIS OF PRODUCT DATA

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.

FURTHER DOCUMENTS

Product Data Sheet - 'Sika® Injection Cleaning System'.

LIMITATIONS

- Contact Sika technical services for specific information on resistance to hydrocarbons or chemicals.

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

MIXING

Mixing Sequence
1. Hardener solution
Pour 10 litres of water in a clean container. Dissolve the content of 2 bags (total 800 g) of Part B in the water. Stir with a mixer at low speed the hardener solution thoroughly until Part B is completely dissolved.

2. Accelerator solution
Determine the required quantity of accelerator (A1) from the accelerator metering chart (Table 1). Dilute the selected quantity of accelerator with water to a total quantity of 1 litre accelerator solution.
3. Accelerator Solution with Part A resin
Pour the 1 litre of accelerator solution into 1 x 9.6 kg container of Part A and shake/mix thoroughly.

4. Resin solution with hardener solution
Depending on the type of injection pump used activate the injection resin using one of the methods below:

- One component pump: Pour a partial amount of the final pre-mixed solution in the ratio of 1:1 by volume into a clean mixing container. Mix thoroughly and pour into the storage container of the pump.
- Two component pump: Pour the resin solution into the storage container of the pumps 'A' side. Pour the Hardener Solution into the storage container of the pumps 'B' side. Then pump at a ratio of 1:1 by volume.

APPLICATION METHOD / TOOLS

Reference must be made to further documentation where applicable, such as relevant method statement, application manual 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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