

PRODUCT DATA SHEET

Sika® Injection-306

Polyacrylic elastic injection resin for permanent watertight sealing

DESCRIPTION

Sika® Injection-306 is a very low viscosity, elastic polyacrylic injection resin with a versatile and adjustable reaction time, suitable for use in groundwater protection zones.

USES

Sika® Injection-306 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)

FEATURES

- Provides a passivating environment for embedded steel reinforcement
- Adjustable curing time between 10 and 60 minutes
- Permanently elastic and able to accommodate limited structural movement
- Capable of reversibly absorbing (swelling) and releasing (shrinking) moisture
- Very low viscosity comparable to water
- Once cured, Sika® Injection-306 is insoluble in water and hydrocarbons and resistant to alkalis

CERTIFICATES AND TEST REPORTS

- Function test with SikaFuko® VT 1, Wissbau, Report No.2002-094-(1A)
- Function test with SikaFuko® Eco 1, Wissbau, Report No.2002-094-(2A)
- Mechanical and long time stability test, FH Aachen
- Compatibility Test with Sikaplan WP/WT Membranes, MPA, Report No.1200/550/15b
- Reaction to fire, EN 13501-1, MPA, Report No.K-3159/085/13-MPA BS

PRODUCT INFORMATION

Composition	3-part polyacrylic resin	
Packaging	Ready to use kit:	
	Part A (Resin)	2 × 8.0 kg
	Accelerator	1 × 1.0 kg
	Hardener	4 × 40 g
	Measuring cup	1 piece
	Additional Accelerator 14 x 1 kg - used for faster reaction times. Refer to current price list for packaging variations.	
Colour	Part A (Resin)	blue – transparent liquid
	Accelerator	yellow – transparent liquid
	Hardener	white - powder
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.		
Density	Part A (Resin)	~1.07 g/cm ³	(EN ISO 2811-2) (at +20 °C)
	Accelerator	~1.08 g/cm ³	
	Hardener	~1.25 g/cm ³	
Viscosity	~3 - 13 MPa·s (mixture, at +20 °C)		(ISO 3219)
Reaction to fire	Class E		

APPLICATION INFORMATION

Mixing ratio

Table 1

Accelerator Metering Chart

Reaction time	Ambient Temperature and Accelerator quantity (ml)				
	+5 °C (+41 °F)	+15 °C (+59 °F)	+22 °C (+72 °F)	+30 °C (+86 °F)	+40 °C (+104 °F)
10 min		1350*	680*	310	160
20 min	1300 *	340*	230	130	50
30 min	840*	230	140	70	30
40 min	640*	160	90	50	-
50 min	490	90	60	40	-
60 min	370	60	30	30	-

The quantity in Table 1 of accelerator (A1) per 8,0 kg of resin (A), will yield ~20 litres of mixed resin. The total accelerator solution must always be 2000 ml (refer to example below).

*Fast reaction – additional accelerator necessary.

Example:

Ambient temperature: +15 °C (+59 °F)

Required reaction time: 30 min

Accelerator = 230 ml

Water = 1770 ml

Total volume = 2000 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.

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 - 60 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 DOCUMENTATION

Clean all tools and application equipment in accordance with the Product Data Sheet for the 'Sika® Injection Cleaning System'.

IMPORTANT CONSIDERATIONS

- The conditions and location of the site the application must be inspected and surveyed, including any foundations and ground conditions, before making any new watertight sealing surfaces (curtain injection) in close proximity to buildings or within existing structures. It must also be ensured that there are no drainage systems or open pipes close to the injection areas.

- Protect Sika® Injection-306 Part A from UV, mix the Sika® Injection-306 accelerator solution into the UV-protected bucket of Sika® Injection-306 Part A.
- Reaction time of the final mixed material on site must be checked prior to any injection.
- 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

The following steps must be followed in the exact order shown below

Hardener solution

Pour 10 litres of water in a clean container. Dissolve the content of 2 bags (total 80 g) of hardener powder in the water. Stir with a mixer at low speed the hardener solution thoroughly until Part B is completely dissolved.

Accelerator solution

Determine the required quantity of accelerator from the accelerator metering chart (Table 1). Dilute the selected quantity of accelerator with water to a total quantity of 2 litres accelerator solution.

Accelerator solution with Part A resin

Pour the 2 litres of accelerator solution into 1 x 8.0 kg container of Part A and shake/mix thoroughly.

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-306 can be used with standard one or two component injection pumps. Stainless steel injection pumps are recommended.

CLEANING OF EQUIPMENT

Clean all tools and application equipment according to 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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Product Data Sheet

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