BUILDING TRUST

PRODUCT DATA SHEET

Sika® Injection-306

ELASTIC POLYACRYLIC INJECTION RESIN USED 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 hot and tropical climatic conditions.

USES

Sika® Injection-306 may only be used by experienced professionals.
- Sika® Injection-306 is used for the repair by injection of damaged waterproofing membranes (single and double layer system).
- Sika® Injection-306 is used as a 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.
- Sika® Injection-306 is used for the injection of SikaFuko® injection hoses to seal construction joints.
- Sika® Injection-306 can be used to seal water-bearing cracks and voids.
- Sika® Injection-306 can be used for 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.

CHARACTERISTICS / ADVANTAGES

- Adjustable curing time between 8 and 50 minutes
- Permanently elastic, can absorb limited movements
- Capable of reversibly absorbing (swelling) and releasing (shrinking) moisture
- Solvent free acrylic resin
- High pH-value of 9 to 10
- Very low viscosity comparable to that of water
- Cured Sika® Injection-306 is insoluble in water and hydrocarbons and resistant to acids and alkalis
- Can be used in ground water protection zones

APPROVALS / CERTIFICATES

- Wissbau No. 2002-094-(1A) – Function test with SikaFuko® VT-1
- Wissbau No. 2002-094-(2A) – Function test with SikaFuko® Eco-1
- FH Aachen – expertise, mechanical long time stability – 01/11/2016
- MPA TU Braunschweig No. 1200/550/15b – Compatibility Test with Sikaplan WP/WT Membranes 03/02/2016

PRODUCT INFORMATION

Composition	3-part polyacylic resin	
Packaging	Component A (Resin)	2 × 8.0 kg
	Accelerator	1 × 1.0 kg
	Hardener powder	4 × 40 g
	Measuring cup	1 piece
	Additional Accelerator 4 x 1 kg - used for faster reaction times	

Colour	Component A (Resin)	Blue - transparent
	Accelerator	Yellow - transparent
	Hardener powder	White
Shelf life	12 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.	
Storage conditions	Dry storage at temperatures between +10 °C and +30 °C. Protect from direct sunlight and humidity.	
Viscosity	~3-11 mPa·s (mixture, at 20 °C)	(acc. ISO 3219)

APPLICATION INFORMATION

Mixing Ratio

Accelerator Solution	Accelerator : Water	Variable, see Metering Chart below
APremix	Accelerator Solution : Component A (Resin)	2 L per 8 kg of Component A (Resin)
BHardener Solution	Hardener powder : Water	80 g (2 × 40 g) per 10 L of water
Sika® Injection-306	APremix : BHardener Solution	1 : 1 by volume

Note for processing in one component pumps:
Workability time (pot life) = Reaction time (see metering chart) – 10 minutes

Accelerator Metering Chart

ml Accelerator[1]	**Ambient Temperature**				
Reaction time	**5 °C (41 °F)**	**10 °C (50 °F)**	**20 °C (68 °F)**	**30 °C (86 °F)**	**40 °C (104 °F)**
8 min			2000 [2]	980 [2]	380
10 min			1150 [2]	480	240
12 min		1880 [2]	820 [2]	320	180
15 min	1800 [2]	1240 [2]	480	220	100
20 min	1060 [2]	900 [2]	280	140	60
25 min	820 [2]	480	200	80	
30 min	620 [2]	350	160		
35 min	440	280	120		
40 min	360	250	80		
45 min	320	220	78		
50 min	250	200	74		

1. Quantity of Accelerator per 8 kg component A to, yield of 20 liters kg mixed resin (the Total Accelerator solution must be 2000 ml 2 liters – see example below).
2. Fast reaction – additional accelerator necessary.

Example:
Ambient temperature: 10 °C (50 °F)
Required reaction time: 25 min
Accelerator in ml = 480 ml
Water in ml = 1520 ml
Total volume = 2000 ml
Note:
The given data are laboratory parameters and may deviate depending on the object and conditions on site.

Ambient Air Temperature	+5 °C min. / +40 °C max
Substrate Temperature	+5 °C min. / +40 °C max.
Curing Time	8 to 50 minutes

APPLICATION INSTRUCTIONS

MIXING

1. Dissolve the content of 2 bags of the hardener powder in 10 litres of water in a separate, clean container. Stir the hardener solution thoroughly until the hardener powder is completely dissolved.
2. Determine the required quantity of accelerator from the Accelerator Metering Chart (Mixing Ratio), considering the ambient processing temperature and the required reaction time. Dilute the selected quantity of accelerator with water to a total quantity of 2 litres in a separate, clean container.
3. Pour the 2 litres of accelerator solution into a 8 kg canister of component A (Resin) and mix thoroughly by shaking the canister.

The injection resin is activated depending on the type of injection pump used:

- When using a one-component pump: Pour partial amount of the premixed components in a ratio of 1:1 by volume into a clean mixing container and mix mechanically.
- When using a two-component pump: Fill partial amounts of the premixed components into the storage container of the pump. Set the pump to work at amixing ratio of 1:1 by volume.

APPLICATION METHOD / TOOLS

Sika® Injection-306 can be processed with standard one or two component 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.

IMPORTANT CONSIDERATIONS

- The conditions and location of the site the application must be inspected and surveyed, including any foundations and the 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.
- This survey provides the information to assess the feasibility of injection proposal and likely material consumption. This also determines the positioning of the injection drill holes.

BASIS OF PRODUCT DATA

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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.

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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