

PRODUCT DATA SHEET

Sika® Injection-306

Elastic polyacrylic injection resin used for permanent watertight sealing

PRODUCT DESCRIPTION

Sika® Injection-306 is a very low viscous, elastic polyacrylic injection resin with a versatile and adjustable reaction time.

USES

Sika® Injection-306 may only be used by experienced professionals.

- Sika® Injection-306 is used for the injection of SikaFuko® injection hoses to seal construction joints.
- Sika® Injection-306 is used to seal water-bearing cracks and voids.
- Sika® Injection-306 is used for curtain/membrane injections in damp or water saturated ground conditions to waterproof large surface areas.
- 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 can also be used for the repair of damaged waterproofing membranes by injection from inside the structure.

CHARACTERISTICS / ADVANTAGES

- Adjustable pot life between 8 and 50 minutes
- Permanently elastic, can absorb limited movements
- Hydrophilic chemistry allows cured material to swell upon contact with water, providing additional sealing properties.
- Solvent free acrylic resin
- Very low viscosity, similar to water, allowing uncured resin to microfine cracks/voids
- Achieves very good penetration
- Cured Sika® Injection-306 is insoluble in water and hydrocarbons and resistant to acids and alkalis.

PRODUCT INFORMATION

Chemical Base	3-part polyacrylic resin	
Packaging	Component A (Resin)	2 × 8.0 kg
	Accelerator	1 × 1.0 kg
	Hardener powder	4 × 40 g
	Measuring cup	1 piece
	Mixing Instructions	

Color	Component A (Resin)	blue – transparent
	Accelerator	yellow – transparent
	Hardener powder	white
Shelf Life	12 months from date of production if stored in unopened, undamaged, and original sealed packaging in warehouse conditions at temperatures between 10 °C and 30 °C.	
Storage Conditions	Store in unopened, undamaged, and original sealed packaging, in warehouse conditions at temperatures between 10 °C and 30 °C.	
Density	Component A (Resin)	~1.10 kg/l (at 20 °C)
	Accelerator	~1.10 kg/l (at 20 °C)
	Hardener Powder	~1.10 kg/l (at 20 °C, after dissolution in water)
Viscosity	Of Mixture ~3-11 mPa s (at 20 °C)	

APPLICATION INFORMATION

Mixing Ratio

Ratio

A : Component A + Accelerator/Water solution

B : Water + Hardener Powder

A : B = 1 : 1

1.) The contents of 2 bags of the hardener powder are dissolved in 10 liters of water in a separate container. The hardener solution is stirred thoroughly until the hardener powder is completely dissolved.

2.) The necessary quantity of accelerator is selected from the enclosed metering chart, under consideration of the ambient processing temperature, and the required reaction time. The chosen quantity of accelerator is diluted with water to a total quantity of 2 liters in a separate container according to the metering chart.

3.) The 2 liters of accelerator solution are poured into one 8 kg canister of component A and thoroughly shaken/mixed.

4.) The injection resin is activated depending on the injection pump used:

A) When using a one-component pump, partial amounts of the premixed components are filled in a ratio of 1:1 into a mixing container and mechanically mixed.

B) When using a two-component pump, partial amounts of the premixed components are filled into the storage container of the pump. The pump is set to work at a ratio of 1:1 by volume.

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

Example:

Ambient temperature: 10°C (50°F)

Required reaction time: 25 min.

Accelerator in ml = 480 ml

Water in ml = 1,520 ml

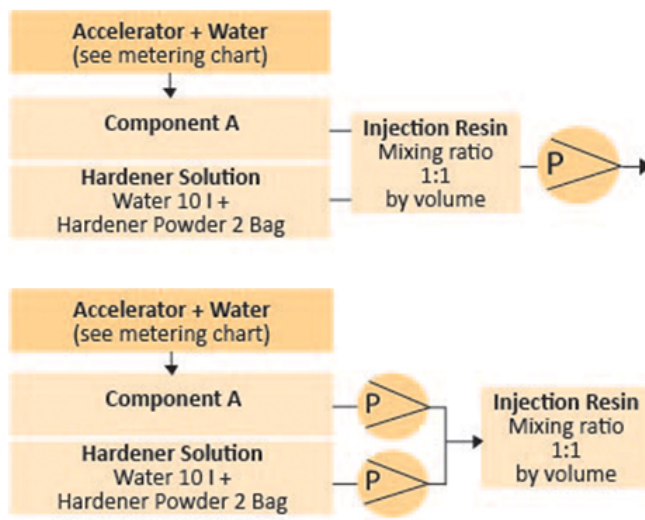
Total volume = 2,000 ml

Note: The given data are laboratory parameters and may deviate depending on the object and conditions on site.

Metering Chart: Accelerator in ml	Ambient Temperature				
	5°C 41°C	10°C 50°C	20°C 68°C	30°C 86°C	40°C 104°C
8			2000*	980*	380
10			1150*	480	240
12		1800*	820*	320	180
15	1800*	1240*	480	220	100
20	1060*	900*	280	140	60
25	820*	480	200	80	
30	620*	350	160		
35	440	280	120		
40	360	250	80		
45	320	220	78		
50	250	200	74		

Reaction Time in minutes

Quantity of accelerator per 8 kg component A to, yield of 20 litres kg mixed resin
(The Total Accelerator solution must be 2000 ml 2 litres - See examples below)



Ambient Air Temperature +5 °C min. / +40 °C max

Substrate Temperature 5 °C min. / 40 °C max.

Cure Time 8 to 50 minutes

APPLICATION INSTRUCTIONS

MIXING

APPLICATION METHOD / TOOLS

Ambient Temperature 5°C min. / 40 °C max.

Environmental Conditions Cured Sika® Injection-306 shall always be used in direct contact with damp or water saturated conditions.

Reaction Time 8 to 50 minutes

Sika® Injection-306 can be used with normal one or two component pumps. Due to the low content of hardener powder the use of a stainless steel injection pump is not necessarily essential.

CLEANING OF TOOLS

- Clean all tools and application equipment with water immediately after use. Hardened/cured material can only be removed mechanically.

LIMITATIONS

at 1-800-424-9300, International 703-527-3887.

The conditions and location of the site require that 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 any 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 the proposed injection and likely material consumption. This also determines the positioning of the injection drill holes.

Application Conditions/Limitations

Substrate Temperature	5 °C min/ 40 °C max.
Ambient Temperature	5 °C min/ 40 °C max.
Environmental Conditions	Cured Sika® Injection-306 shall always be used in direct contact with damp or water saturated conditions
Reaction Time	8 to 50 minutes

This survey provides the information to assess the feasibility of the proposed injection and likely material consumption. This also determines the positioning of the injection drill holes.

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.

OTHER RESTRICTIONS

See Legal Disclaimer.

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

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.

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