Sika® Injection-306

Elastic polyacrylic injection resin used for permanent watertight sealing

Product	Sika® Injection-306 is a very low viscous, elastic polyacrylic injection resin with a				
Description	versatile and adjustable reaction time.				
Uses	 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 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 				
	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 by injection of damaged waterproofing membranes (single and double layer system) 				
Characteristics /	 Adjustable curing time between 8 and 50 minutes 				
Advantages	 Permanently elastic, can absorb limited movements 				
	 Capable of reversibly absorbing (swelling) about 75 % by weight 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 				
	Environmentally friendly, can be used in ground water protection zones				
Tests					
Approval / Standards	Wissbau No. 2002-094-(1A) – Function test with SikaFuko VT 1				
	Wissbau No. 2002-094-(2A) - Function test with SikaFuko Eco 1				



Product Data					
Form					
Colours	Component A (Resin): Accelerator: Hardener powder:	blue – transparent yellow – transparent white			
Packaging	Component A (Resin): Accelerator: Hardener powder: Measuring cup:	2 x 8,0 kg 1 x 1,0 kg 4 x 40 g 1 piece			
	Additional Accelerator 4 x 1 kg - used for faster reaction times				
Storage					
Storage Conditions / Shelf-Life	12 months from date of production if stored in unopened, undamaged and original sealed packaging, in dry and lightproof conditions at temperatures between +10°C and +30°C.				
Technical Data					
Chemical Base	3-part polyacylic resin				
Density	Component A (Resin): Accelerator: Hardener powder:	~ 1.10 kg/l (at +20°C) ~ 1.10 kg/l (at +20°C) ~ 1.20 kg/l (at +20°C, after dissolution in water)			
Viscosity	Of mixture: ~ 3-11 mPa	rs (at +20°C)			
System Information					
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				
Application Instructions					
Mixing Ratio	A: Component A (Resin): Accelerator / Water 4:1				
	B: Water: Hardener power	der: 100:0,8			

A : B

2

1:1

Mixing

- 1.) The contents of 2 bags of the hardener powder are dissolved in 10 litres 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 litres in a separate container. According to the metering chart.
- 3.) The 2 litres of accelerator solution are poured into one 8 kg canister of component A and thoroughly shaken/mixed.
- 4.) The injection resin is activated in dependence of 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

Metering Chart: Accelerator in ml		Ambient Temperature					
		5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C 104°F)	Accelerator to, yield of 20 litreskg resin solution must be 2000 example below)
	8			2000 *	980 *	380	litre
	10			1150 *	480	240	of 20 litr must b
Reaction time in minutes	12		1880 *	820 *	320	180	erate eld o ion r
	15	1800 *	1240 *	480	220	100	Accelerar to, yield or resin solution example
	20	1060 *	900 *	280	140	60	
	25	820 *	480	200	80		Quantity of per 8 kg component A mixed (The Total Accelerator ml 2 litres – see
	30	620 *	350	160			Quant Ompor
	35	440	280	120			Qu ∞r Ac
	40	360	250	80			C per 8 kg on he Total A ml 2
	45	320	220	78			per . 96
	50	250	200	74			L)

^{*} fast reaction - additional accelerator necessary.

3

Example:

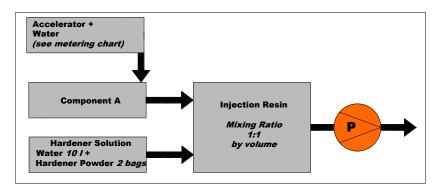
Ambient temperature: 10 °C (50°F) Required reaction time: 25 min.

Accelerator in ml = 480 ml Water in ml = 1520 ml Total volume = **2000 ml**

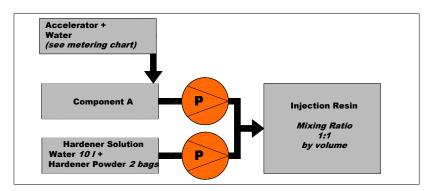
Sika[®] Injection-306

Note:

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



Mixing instructions for processing in one-component pumps



Mixing instructions for processing in two-component pumps

Application Method / Tools	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.		
Notes on Application / Limitations	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 an 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 andlikely material consumption. This also determines the positioning of the injection drill holes.		
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.		
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.		

4

Sika® Injection-306

Construction

Important Notification

The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Product Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.









