Product Data Sheet Edition 01/01/2014 Identification no: 02 07 07 02 000 0 000005 Sika[®] Injection-306

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 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: Additional Accelerator 4 x 1	2 x 8,0 kg 1 x 1,0 kg 4 x 40 g 1 piece 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·s	s (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 powde	er: 100:0,8				
	A : B	1:1				

- 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

<u>Metering</u> <u>Chart:</u> 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)	skg • 2000
	8			2000 *	980 *	380	litre it be w)
	10			1150 *	480	240	or of 20 mus belo
tes	12		1880 *	820 *	320	180	erat eld c ion i
inu	15	1800 *	1240 *	480	220	100	ccel o, yié esin oluti xam
in m	20	1060 *	900 *	280	140	60	of A Atc ed r or s e e
me	25	820 *	480	200	80		nent mix erato
on ti	30	620 *	350	160			npoi pres
actic	35	440	280	120			Qu Cor I Ac
Re	40	360	250	80			8 kg Tota
	45	320	220	78			per he
	50	250	200	74			Ľ

* fast reaction - additional accelerator necessary.

Example:

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

Accelerator in ml = 480 mlWater in ml = 1520 mlTotal volume = **2000 \text{ ml}**

Note:

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







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.



Sika India Pvt. Ltd. Commercial Complex II 620, Diamond Harbour Road Kolkata, 700 034, India Phone +91 33 2447 2448/2449 Telefax +91 33 2397 8688 ind.sika.com info.india@in.sika.com