

Sika® Inject 215

Elastic Polyacrylic Injection Resin Used for Permanent Watertight Sealing

Description	Sika® Inject 215 is a low viscosity, elastic polyacrylic injection resin with a fast, adjustable reaction time and high flexibility for the waterproofing of building structures.	
Where to Use	<ul style="list-style-type: none"> ■ Sika® Inject 215 is used for the injection of SikaFuko® injection hoses to seal construction joint. ■ Sika® Inject 215 is used to seal water-bearing cracks and voids. ■ Sika® Inject 215 is used for curtain/membrane injections in damp or water saturated ground conditions to waterproof large surface areas. ■ Sika® Inject 215 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. 	
Advantages	<ul style="list-style-type: none"> ■ Adjustable pot life between 2 and 15 minutes ■ Hydrophilic chemistry allows cured material to swell upon contact with water, providing additional seal properties. ■ Flexible and solvent free acrylate resin ■ Compatible with water ■ Very good penetration 	
Typical Data		
Packaging	Approximate yield = 8 US gallons Resin 2 x 2.0 gallons 30 x 41 lbs = 1.230 lbs Accelerator 2 x 26 fl. oz. Hardener-Powder 2 x 14 oz. Measuring cup 100 ml 1 piece Mixing Instruction	
Cure Mechanism	Chemical	
	Properties	Mixture of Resin
	Viscosity at (20°C) (68°F) (mixture of components)	Approx. 6mPas
	Density at (20°C) (68°F)	Approx. 1.08 g/ml
	pH-value at (20°C) (68°F)	Approx. 10
	Color	Yellow
	Chloride content	<0.01%
	Processing	Injection with two component pump via injection hoses or drill packer
	Shelf life	12 months
	*Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.	
How to Use		
Surface Prep	Substrate Temperature +5°C min. / +40°C max.	



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Mixing

Please see chart below

Metering Chart:		Ambient Temperature							
		5°C 41°C	10°C 50°C	15°C 59°C	20°C 68°C	25°C 77°C	30°C 86°C	35°C 95°C	40°C 104°C
Reaction Time	2 min.						19	15 1/4	10 1/4
	3 min.			22 3/4	16 1/2	10 3/4	6 1/2	5 1/4	3 1/4
	4 min.	22 3/4	12 3/4	9 3/4	6 1/2	5 1/2	4	2	
	5 min.	15 1/4	9	5 1/2	4 1/2	3 1/4	2 1/4		
	10 min.	5 1/4	4	3	2				
	15 min.	3 3/4	3						

Quantity of accelerator in fl. oz. per 2 gallons of resin

Example for Mixing: Ambient Temperature **20°C (68°F)**
 Required Reaction Time **5 min.**
Component A
Accelerator quantity = 4 1/2 fl. oz.
Resin = 2 gallons
Component B
Hardener Powder = 1 bag
Water = 2 gallons

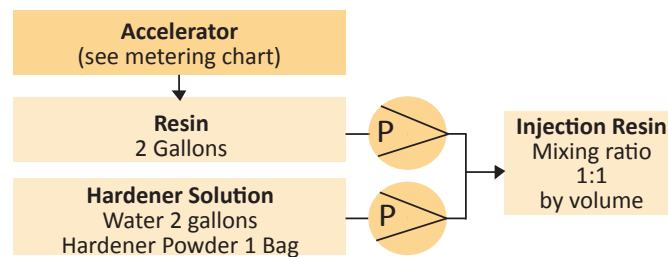


Figure 1: Mixing instructions for processing in two-component pumps

Sika® Inject 215 consists of 3 components which can be mixed in dependence of the required reaction times:

- 1.) 2 gallons of the resin (component A) are activated with 2 fl. oz. to 26 fl. oz. of accelerator. The reaction time - see metering chart - is adjusted by the quantity of accelerator used.
- 2.) The hardener solution (component B) is produced by dissolving 1 bag (14 oz.) of hardened powder in 2 gallons of water.
- 3.) The pre-mixed components as per point 1 and 2 above are processed with a two-component injection pump, having a static mixing unit in a mixing ratio of 1:1.

Application

Sika® Inject 215 is injected with a two-component pump with a static mixing head in the ratio of 1:1 volume. It is necessary all pump components that will be in contact with the Sika® Inject 215 are comprised of stainless steel.

Sika® Inject 215 will react in dependence with the volume of mixed resin, the accelerator volume, and ambient air temperature. The mixing chart instructions are based on laboratory results, which may differ results on site. A manual test should be completed on site to determine the exact adjustments and pot life of mixed material before injection work commences.

Removal

Sika® Inject 215 is compatible with water, therefore re-injectable injection hoses can be cleaned by vacuum. Tools and injection pumps can be cleaned with water after use. Hardened/cured material can only be removed mechanically.



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Shelf Life

12 months

Storage

Sika® Inject 215 can be stored for up to 12 months in sealed containers and at temperatures between +10°C and +30°C.

Further Information

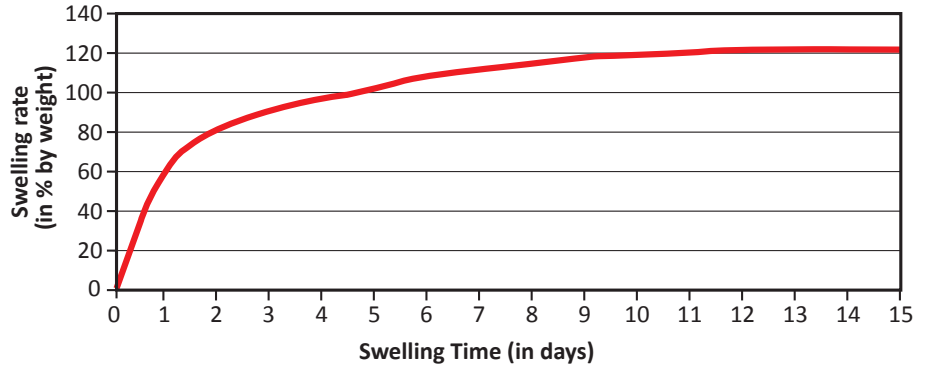


Figure 2: Swelling behavior in demineralized water

Sika® Inject 215 has a medium to high swelling rate and therefore offers additional safety in case of movements/joint movements. The determination of the swelling rate depends of the contact medium, the temperature and reaction time.

KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY • FOR PROFESSIONAL USE ONLY

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