

Sika® Injection-201-CE

Elastic PUR-Injection resin for permanent watertight sealing

Construction

Product Description	Sika® Injection-201-CE is a very low viscous, elastic and solvent-free polyurethane injection resin. In contact with water, a uniform, closed and therefore watertight pore structure forms, which is elastic and flexible.	
Uses	<ul style="list-style-type: none"> ■ Sika® Injection-201-CE is used for permanent watertight sealing with some flexibility to absorb limited movement, in dry, damp or water-bearing cracks and joints in concrete, brickwork and natural stone ■ Sika® Injection-201-CE can be used for the injection of the SikaFuko®-System (non re-injectable!) ■ For use in water-bearing cracks under hydrostatic pressure, preliminary injection with shall be made with Sika® Injection-101-RC 	
Characteristics / Advantages	<ul style="list-style-type: none"> ■ Permanently elastic, can absorb limited movements ■ No shrinkage in subsequent dry conditions ■ Due to its low viscosity it can penetrate into cracks >0.2 mm in width ■ Cured Sika® Injection-201-CE is inert and chemically-resistant ■ Solvent-free, environmentally friendly, usable in ground water protection zones ■ In cold temperatures (< +10°C) Sika® Injection-201-CE can be accelerated using Sika® Injection-AC20 ■ Can be injected as a one component system (when no accelerator is used) 	
Tests		
Approval / Standards	German KTW drinking water certificate	
Product Data		
Form		
Colours	Part A:	Colourless
	Part B:	Brown
Packaging	Part A:	10 and 20 kg
	Part B:	10,6 and 21,2 kg
Storage		
Storage Conditions / Shelf-Life	36 months from date of production if stored in unopened, undamaged and original sealed packaging, in dry conditions at temperatures between +5°C and +30°C.	



Technical Data

Chemical Base	Solvent free, water reactive 2-part polyurethane resin		
Density	Part A:	~ 1.00 kg/l	(+20°C)
	Part B:	~ 1.07 kg/l	(+20°C)
Viscosity	Of mixture:	~ 100 mPa·s	(at +20°C)

System Information

Application Details

Substrate Preparation Surfaces of cavities and cracks need to be clean, free of loose particles, dust, oil and any other bond-breaking substances. Any dirt must be blown out by compressed air.

Application Conditions/ Limitations

Substrate Temperature +5°C min. / +35°C max.

Ambient Temperature +5°C min. / +35°C max.

Application Instructions

Mixing Ratio 1 : 1 parts by volume

- Mixing**
- Empty parts A and B into a mixing vessel and mix slowly and thoroughly for at least 2 min (max. 250 rpm) until homogeneous, observing the safety precautions. The containers are supplied according to the required mixing ratio of 1 : 1 parts by volume.
 - Partial quantities can be measured out into separate vessels. After mixing, pour the material into the pump's feed container, stir briefly and apply within the pot life.
 - After mixing, pour the material into the pump's feed container, stir briefly and use within the pot life.

If the substrate and/or ambient temperatures are < +10°C, Sika® Injection-AC20 can be added to accelerate the reaction time.

Reaction time table Sika® Injection-201-CE			Material temperature		
			+5°C	+10°C	+20°C
Dosage of Sika® Injection-AC20 in % by weight of Sika® Injection-201-CE Comp. A	0.0%	Reaction time	~ 180 min	~ 180 min	~ 135 min
	0.5%		~ 60 min	~ 55 min	~ 38 min
	1.0%		~ 29 min	~ 32 min	~ 24 min
	2.0%		~ 16 min	~ 17 min	~ 13 min
	3.0%		~ 13 min	~ 14 min	~ 10 min
	5.0%		~ 9 min	~ 7 min	~ 5 min

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

Application Method / Tools Use injection pumps suitable for single part products, such as Sika® Injection Pump EL-1, EL-2, Hand-1 or Hand-2.

Cleaning of Tools Clean all tools and application equipment with Sika® Thinner C to remove any polyurethane residue immediately after use. Do not leave Sika® Thinner C in the injection pump. Hardened/cured material can only be removed mechanically.

Notes on Application / Limitations	<p>The waterproofing process is divided into three phases:</p> <p><i>Injection:</i> The time during which the injection material flows under pressure from the pump to the desired moisture ingress/water containing areas.</p> <p><i>Induction:</i> The time from initial mixing until the reaction starts.</p> <p><i>Reaction in contact with water:</i> The period during which the mix viscosity increases and foam formation takes place.</p> <p>or</p> <p><i>Reaction in dry conditions:</i> The period during which the mix viscosity increases and the hardening process (without foam formation) takes place</p> <p>For water intrusions that can not be stopped with Sika® Injection-201-CE, the fast foaming PUR injection resin Sika® Injection-101-RC can be injected until the water flow stops.</p>
Value Base	<p>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.</p>
Local Restrictions	<p>Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.</p>
Health and Safety Information	<p>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.</p>
Legal Notes	<p>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.</p>
CE Labelling	<p>EN 934-2:2009 is a candidate "harmonized" European Standard and fully takes into account the requirements of the European Commission mandate M128. Products related to concrete, mortar and grout, given under the EU Construction Products Directive (89/106/EEC) and intended to lead to CE marking.</p> <p>CE-labelled as per Annex ZA.3, table ZA.2 conformity 2+ and fulfil the requirements of the given mandate of the EU Construction Products Directive (89/106/CE).</p>



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