

## Product Data Sheet

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**Sika® Injection-201 CE**

# Sika® Injection-201 CE

Elastic PUR-Injection Resin for Permanent Watertight Sealing

<b>Product Description</b>	<b>Sika® Injection-201 CE</b> is a very low viscosity, 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. Suitable for use in hot and tropical climatic conditions.
<b>Uses</b>	<b>Sika® Injection-201 CE</b> 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. <b>Sika® Injection-201 CE</b> can be used for the injection of the SikaFuko®-System (non-reinjectable) For use in water-bearing cracks under hydrostatic pressure, preliminary injection shall be made with Sika® Injection-101 RC
<b>Characteristics / Advantages</b>	<ul style="list-style-type: none"><li>▪ Permanently elastic, can absorb limited movements</li><li>▪ No shrinkage in subsequent dry conditions</li><li>▪ Due to its low viscosity it can penetrate into cracks &gt;0.2 mm in width</li><li>▪ Cured <b>Sika® Injection-201 CE</b> is inert and chemically-resistant</li><li>▪ Solvent-free, environmentally friendly, usable in ground water protection zones</li><li>▪ In cold temperatures (&lt; +10°C) <b>Sika® Injection-201 CE</b> can be accelerated using Sika® Injection-AC 20</li><li>▪ Can be injected as a one component system (when no accelerator is used)</li></ul>
<b>Tests</b>	
<b>Standards / Approvals</b>	German KTW drinking water certificate
<b>Product Data</b>	
<b>Form</b>	Part A: Liquid Part B: Liquid
<b>Appearance / Colours</b>	Part A: Colourless Part B: Brown
<b>Packaging</b>	Part A: 10 and 20 kg Part B: 10,6 and 21,2 kg
<b>Storage</b>	
<b>Storage Conditions</b>	Store in dry conditions in original sealed packaging at temperatures between +5°C and +30°C. Protect from direct heat and frost.
<b>Shelf Life</b>	36 months from date of production if stored in unopened, undamaged and original sealed packaging.



## Technical Data

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

## Application Details

<b>Substrate preparation</b>	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.
<b>Substrate Temperature</b>	+5°C min. / +35°C max
<b>Ambient Temperature</b>	+5°C min. / +35°C max
<b>Mixing Ratio</b>	1 : 1 parts by volume
<b>Mixing</b>	<p>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.</p> <p>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.</p> <p>If the substrate and/or ambient temperatures are &lt; +10°C, Sika® Injection-AC 20 can be added to accelerate the reaction time.</p>

Reaction time table:- Sika® Injection-201 CE			Material temperature		
			+5°C	+10°C	+20°C
Dosage of Sika® Injection-AC 20 in % by weight of Sika® Injection-201 CE (Component 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.

<b>Application Method</b>	Use injection pumps suitable for single part products, such as Sika® Injection Pump EL-1, EL-2, Hand-1 or Hand-2.
<b>Cleaning</b>	<p>Clean all tools and application equipment with Sika® Colma Cleaner to remove any polyurethane residue immediately after use.</p> <p>Do not leave Sika® Colma Cleaner in the injection pump.</p> <p>Hardened / cured material can only be removed mechanically.</p>

<b>Notes on Application / Limitations</b>	<p>The waterproofing process is divided into three phases:</p> <p><i>Injection:</i></p> <p>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></p> <p>The time from initial mixing until the reaction starts.</p> <p><i>Reaction:</i></p> <p>a) In contact with water: The period during which the mix viscosity increases and foam formation takes place.</p> <p>b) In dry conditions: The period during which the mix viscosity increases and the hardening process (without foam formation) takes place.</p> <p>For water intrusions that cannot 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>
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<b>Value Base</b>	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.
<b>Local Restrictions</b>	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 product uses
<b>Health and Safety Information</b>	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.
<b>Legal Notes</b>	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.

All products are manufactured under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.



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