Product Data Sheet
Edition 26/03/2008
Identification no:
02 07 05 01 000 0 000003
Sika® Injection-201

# Sika® Injection-201

### Elastic PUR-Injection resin for permanent watertight sealing

Product Description	Sika <sup>®</sup> Injection-201 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> <li>Sika<sup>®</sup> Injection-201 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</li> <li>Sika<sup>®</sup> Injection-201 can be used for the injection of the Sika<sup>®</sup> Injectoflex-</li> </ul>					
	System (non re-injectable!)  For use in water-bearing cracks under hydrostatic pressure, preliminary injection with shall be made with Sika® Injection-101					
Characteristics / Advantages	<ul> <li>Permanently elastic, can absorb limited movements</li> <li>No shrinkage in subsequent dry conditions</li> <li>Due to its low viscosity it can penetrates into cracks &gt;0.2 mm in width</li> <li>Cured Sika<sup>®</sup> Injection-201 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) Sika<sup>®</sup> Injection-201 can be accelerated using Sika<sup>®</sup> Injection-AC20</li> <li>Can be injected as a one component system (when no accelerator is used)</li> </ul>					
Tests						
Approval / Standards	German KTW drinking water certificate					
Product Data						
Form						
Colours	Part A: Colourless Part B: Dark brown					
Packaging	Part A: 10 and 20 kg Part B: 11.3 and 22.6 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: Part B:	~ 1.01 kg/l ~ 1.14 kg/l	(+20°C) (+20°C)					
Viscosity	Of mixture:	~ 95 mPa·s	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	<ul> <li>Measure out into separate vessels equal quantities of Part A and Part B. (Sika® Injection-201are supplied in packs of the correct mixing ratio 1:1 by volume).</li> <li>Pour the measured out material into a mixing vessel and mix slowly (max 25 rpm) for a minimum of 2 minutes until homogeneous.</li> <li>When mixed, pour the material into the pump feed container.</li> <li>Use within the pot life. Approximately 90 minutes at 20°C. Remove any ski that has formed on the surface if left standing prior to use.</li> <li>In low substrate and/or low ambient temperatures (&lt;10°C) or to speed up th start of expansion, Sika® Injection-AC20 can be added to the Sika® Injection-AC20 can be added to accelerate the reaction time.</li> </ul>							
	Reaction time table Sika® Injection-201			Material temperature				
				+5°C	+10°C	+20°C		
	Dosage of Sika® Injection-AC20 in % by weight of Sika® Injection-201 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		
		3.0%		~ 16 min ~ 13 min	~ 17 min ~ 14 min	~ 13 min ~ 10 min		
	D Injec v Injec	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 $^{\otimes}$ Injection Pump EL-1, EL-2, Hand-1 or Hand-2.							
Cleaning of Tools	Clean all tools and application equipment with Sika <sup>®</sup> .Colma-Cleaner to remove any polyurethane residue immediately after use. Do not leave Sika <sup>®</sup> .Colma-Cleaner in the injection pump. Hardened/cured material can only be removed mechanically.							
Pot Life	Approx. 90 minutes @ 20°C							

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### Notes on Application / Limitations

The waterproofing process is divided into three phases:

Injection:

The time during which the injection material flows under pressure from the pump to the desired moisture ingress/water containing areas.

Induction:

The time from initial mixing until the reaction starts.

Reaction in contact with water:

The period during which the mix viscosity increases and foam formation takes place.

or

Reaction in dry conditions:

The period during which the mix viscosity increases and the hardening process (without foam formation) takes place

For water intrusions that can not be stopped with Sika<sup>®</sup> Injection-201, the fast foaming PUR injection resin Sika<sup>®</sup> Injection-101 can be injected until the water flow stops.

#### 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.

#### **Local Restrictions**

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.

# 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.

#### **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 Limited Watchmead Welwyn Garden City Hertfordshire AL7 1BQ United Kingdom

Phone +44 1707 394444 Telefax +44 1707 329129 www.sika.co.uk, email: sales@uk.sika.com





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