BUILDING TRUST

PRODUCT DATA SHEET

Sika® Injection-201 CE

Elastic PUR-Injection resin for permanent watertight sealing

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

Sika® Injection-201 CE may only be used by experienced professionals.

- 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 shall be made with Sika® Injection-101 RC

FEATURES

- 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
- In cold temperatures (< +10°C) Sika® Injection-201 CE can be accelerated using Sika® Injection-AC20
- Can be injected as a one component system

CERTIFICATES AND TEST REPORTS

- German KTW drinking water certificate
- Concrete injection for ductile filling of cracks, voids and interstices (D) according to EN 1504-5:2004, Declaration of Performance 35859175, certified by notified factory production control certification body 0761 and provided with the CE marking.

PRODUCT INFORMATION

Composition	Water reactive 2-part polyurethane resin, solvent free	
Packaging	Part A	10 kg, 20 kg
	Part B	10.6 kg, 21.2 kg
Colour	Part A	colourless
	Part B	brown
Shelf life	36 months from date of production if stored properly in undamaged, unopened, original sealed packaging.	
Storage conditions	Dry storage at temperatures between +5 °C and +35 °C. Protect from direct sunlight and humidity.	

Density	**Part A** ~1.00 kg/l	**Part B** ~1.07 kg/l	(ISO 2811)
	All density values determined at +20 °C		
Viscosity	~100 mPa·s (mixture, +20 °C)		(ISO 3219)

TECHNICAL INFORMATION

Shore A hardness	~43 (7 days)	(EN 868)
Modulus of elasticity in flexure	~2 MPa	(ISO 527-1)
Tensile strain at break	~35 %	(ISO 527)

APPLICATION INFORMATION

Mixing ratio

Part A:Part B 1:1 parts by volume

Reaction time table Sika® Injection-201 CE
(ISO 9514)

	Material Temperature		
Dosage*	**+5 °C**	**+10 °C**	**+20 °C**
0.0 %	~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

*Dosage of Sika® Injection-AC20 in % by weight of Sika® Injection-201 Comp. A

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

Ambient air temperature	+5°C min. / +35°C max.
Substrate temperature	+5°C min. / +35°C max.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

Only for application by trained and experienced professionals.
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.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

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.

MIXING

Empty parts A and B into a mixing vessel and mix slowly and thoroughly for at least 3 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 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.

CLEANING OF EQUIPMENT

Clean all tools and application equipment according to the Product Data Sheet for the Sika®Injection Cleaning System

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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.