

PRODUCT DATA SHEET

Sika® Injection-201 IN

ELASTIC POLYURETHANE INJECTION RESIN FOR PERMANENT WATERTIGHT SEALING

DESCRIPTION

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

- It 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
- It can be used for the injection of the Sika® Fuko System (non re-injectable!)
- It can be injected in water-bearing cracks under hydrostatic pressure, preliminary injection in such cases shall be done with Sika® Injection-101h or cementitious injection system for temporary reduction in water pressure

CHARACTERISTICS / ADVANTAGES

- 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 IN is inert and chemically-resistant
- Solvent-free, environmental friendly, usable in ground water protection zones

PRODUCT INFORMATION

Chemical Base	Solvent free, water reactive 2-part polyurethane resin (liquid)	
Packaging	16 kg (Part A + Part B)	
Colour	Part A: Translucent Part B: Dark Brown	
Shelf Life	36 months from date of production	
Storage Conditions	Store in unopened, undamaged and original sealed packaging, in dry conditions at temperatures between +10°C and +35°C.	
Density	Part A	~ 1.04 ± 0.02 kg/m ³
	Part B	~ 1.22 ± 0.02 kg/m ³
Viscosity	~250 - 600 mPa.s or centipoise (cps) (Mixed A+B at +30°C)	

APPLICATION INFORMATION

Mixing Ratio	2 : 1 parts by volume (Part A : Part B)
Ambient Air Temperature	+5°C min. / +35°C max.
Substrate Temperature	+5°C min. / +35°C max.
Gel time	Minimum : ~70 minutes (Mixed System at +20°C) Maximum : ~90 minutes (Mixed System at +20°C)

APPLICATION INSTRUCTIONS

EQUIPMENT

Use injection pumps suitable for single component products or two component products.

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 2 min (max. 250 rpm) until homogeneous, observing the safety precautions. The containers are supplied according to the required mixing ratio of 2 : 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.

CLEANING OF TOOLS

Clean all tools and application equipment with Xylene. Hardened/cured material can only be removed mechanically.

LIMITATIONS

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® Injection-201 IN, the fast foaming polyurethane injection resin Sika® Injection-101 h can be injected until the water flow stops. Alternatively cementitious grout injection with Sika® non-shrink additive can also be used to reduce the flow of water and also to keep the process cost effective. In such cases Sika® Injection-201 IN is used as a permanent seal to keep the seal flexible.

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Product Data Sheet
Sika® Injection-201 IN
January 2020, Version 01.01
020707010020000045

BASIS OF PRODUCT DATA

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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) 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.

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