

PRODUCT DATA SHEET

Sika® Injection-203

Elastic PUR-Injection resin for permanent watertight sealing

DESCRIPTION

Sika® Injection-203 is a low viscous, elastic and solvent-free polyurethane injection resin, which cures in both dry and wet conditions to form an elastic, watertight filling and sealing material.

USES

Sika® Injection-203 may only be used by experienced professionals.

- Sika® Injection-203 is used for permanent watertight sealing with some flexibility of dry, damp or water-bearing cracks and joints in concrete, brickwork and natural stonework
- Sika® Injection-203 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

CHARACTERISTICS / ADVANTAGES

- Permanently elastic, can absorb limited movement
- No shrinkage in subsequent dry conditions
- Due to its low viscosity it can penetrate into narrow cracks starting from 0.2 mm in width
- Cured Sika® Injection-203 is inert and chemically-resistant
- Solvent-free, usable in ground water zones
- At cold temperature (less than 10 °C) Sika® Injection-203 can be accelerated using Sika® Injection-AC20
- Can be injected as a one component system

APPROVALS / STANDARDS

- German ZTV-ING chapter 3, part 5 (RISS) tested (BAST listed)
- 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 57838186, certified by notified factory production control certification body 0761 and provided with the CE marking.

PRODUCT INFORMATION

Chemical Base	Solvent free, water reactive 2-component polyurethane resin	
Packaging	Component A	10.0 and 20.0 kg
	Component B	5.5 and 11.0 kg
Shelf Life	24 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.	
Storage Conditions	Dry storage at temperatures from +5 °C up to +35 °C. Protect from direct sunlight and humidity.	
Colour	Component A	yellow
	Component B	brown

Density	Component A	~0.97 kg/l	(ISO 2811))
	Component B	~1.10 kg/l	
All values at +20 °C			
Viscosity	~180 mPa·s (mixture, at 20 °C)		(acc. ISO 3219)

TECHNICAL INFORMATION

Shore A Hardness	~22	(EN 868)
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APPLICATION INFORMATION

Mixing Ratio	2 : 1 parts by volume			
	Reaction time table Sika® Injection-203 (ISO 9514)			
	Dosage*	Material temperature		
	Sika® Injection-AC20	+5 °C	+10 °C	+20 °C
	0.0 %	~ 90 min	~ 90 min	~ 70 min
	0.5 %	~ 55 min	~ 60 min	~ 50 min
	1.0 %	~ 38 min	~ 40 min	~ 40 min
	2.0 %	~ 25 min	~ 25 min	~ 25 min
	3.0 %	~ 17 min	~ 19 min	~ 18 min
	5.0 %	~ 10 min	~ 12 min	~ 11 min
* Dosage of Sika® Injection-AC20 in % by weight of Sika® Injection-203 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 Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS

For water intrusions that can not be stopped with Sika® Injection-203, the fast foaming PUR injection resin Sika® Injection-101 RC can be injected until the water flow stops.

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.

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 clean

compressed air.

MIXING

- Empty Component A and Component B into a mixing vessel and mix slowly and thoroughly for at least 3 minutes (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 in 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 below +10 °C, Sika® Injection-AC20 can be added to accelerate the reaction time.

APPLICATION METHOD / TOOLS

Use injection pumps suitable for single component injection products.

CLEANING OF TOOLS

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

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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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Product Data Sheet

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