

PRODUCT DATA SHEET

SikaInject®-216 DE

2-component polyurethane injection resin for permanent waterproofing and structural repair
 Formerly TPH.® PUR-O-STOP FS-L

PRODUCT DESCRIPTION

SikaInject®-216 DE is a PU-based 2-component, slow-hardening, rigid resin for waterproofing and stabilization works.

USES

SikaInject®-216 DE may only be used by experienced professionals.

SikaInject®-216 DE is used for stabilization and consolidation of water-bearing rock, ground, sand as well as for stopping inrushing water in tunnels, shafts, dams and other building structures made from concrete or brickwork.

SikaInject®-216 DE can also be used as concrete injection product for force transmitting filling of cracks.

CHARACTERISTICS / ADVANTAGES

- SikaInject®-216 DE penetrates well into structures to be sealed
- Viscous and hydrophobic mixture can displace water
- Adjustable reaction time by adding accelerator (SikaInject® AC 20, see pot-life table)
- Develops a solid foam at resin-water-interface
- Application with 1-comp.-pump or 2-comp.-pump

APPROVALS / STANDARDS

German General Building Inspectorate Approval, injection product for curtain grouting

PRODUCT INFORMATION

Packaging	SikaInject 216 (Part A) - 20 kg SikaInject - 210/213/216 DE (Part B) - 24 kg
Colour	part A: transparent yellowish, liquid part B: brown, liquid
Shelf Life	12 months from date of production
Storage Conditions	In original packaging stored in dry conditions 15 °C - 25°C protected from heat, direct sunlight and frost
Density	part A: ~ 1.03 kg/l (23°C, ISO 2811-1) part B: ~ 1.23 kg/l (23°C, ISO 2811-1)
Viscosity	part A: ~ 190 mPas (23°C, ISO 2555) part B: ~ 100 mPas (23°C, ISO 2555) mix AB: ~ 140 mPas (23°C, ISO 2555)
Compressive Strength	~74 N/mm ² (DIN EN 12390-3)
Tensile Strength	~ 29 N/mm ² (DIN EN 12390-5)

APPLICATION INFORMATION

Mixing Ratio	1:1 parts by volume																																						
Ambient Air Temperature	+5 °C min. / +35 °C max.																																						
Substrate Temperature	+5 °C min. / +35 °C max.																																						
Pot Life	~ 90 min (ASTM D7487) 23 °C																																						
Curing Time	~ 24 hrs (23 °C)																																						
Reaction time	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="background-color: #ffd700;">SikalInject-216 DE</th></tr> <tr> <th>SikalInject AC 20</th> <th></th> <th>Potlife</th> </tr> <tr> <th>(g)</th> <th>(%)</th> <th>min</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0.00%</td> <td>90</td> </tr> <tr> <td>20</td> <td>0.10%</td> <td>40</td> </tr> <tr> <td>50</td> <td>0.25%</td> <td>13</td> </tr> <tr> <td>100</td> <td>0.50%</td> <td>5.5</td> </tr> <tr> <td>200</td> <td>1.00%</td> <td>3</td> </tr> <tr> <td>400</td> <td>2.00%</td> <td>1.5</td> </tr> <tr> <td>500</td> <td>2.50%</td> <td>1</td> </tr> <tr> <td colspan="3">catalyst mixed in 20 kg A-component</td></tr> <tr> <td colspan="3">Values without water at 20 °C</td></tr> </tbody> </table>			SikalInject-216 DE			SikalInject AC 20		Potlife	(g)	(%)	min	0	0.00%	90	20	0.10%	40	50	0.25%	13	100	0.50%	5.5	200	1.00%	3	400	2.00%	1.5	500	2.50%	1	catalyst mixed in 20 kg A-component			Values without water at 20 °C		
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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.

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 Sheets (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Surfaces of cracks, joints and voids need to be clean, free of loose particles, dust, oil and any other bond-breaking substances.

Any dirt must be blown out with compressed air.

MIXING

If 2-component pumps are used the product can be pumped directly from the containers and will be mixed in a static mixer.

Due to the relatively long potlife 1-component pumps can be used, too. Mix components in a dry and clean container until homogeneous appearance (no streaks). Then, mix is ready to be pumped.

When using accelerator SikalInject AC 20, measure the required quantity and pre-mix into part A of the base resin.

Injection through packers or injection lances.

APPLICATION METHOD / TOOLS

Reference must be made to further documentation where applicable, such as relevant method statement, application manual and installation or working instructions.

CLEANING OF TOOLS

Pumps and tools to be cleaned using appropriate cleaner.

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.

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