

PRODUCT DATA SHEET

SikaInject®-216 DE

(formerly TPH.® PUR-O-STOP FS-L)

2-component polyurethane injection resin for permanent waterproofing and structural repair

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 intruding 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.

FEATURES

- 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 DE, see pot-life table)
- Develops a solid foam at resin-water-interface
- Application with 1-comp.-pump or 2-comp.-pump

CERTIFICATES AND TEST REPORTS

- Concrete injection for force transmitting, structural filling of cracks, voids and interstices (F) according to EN 1504-5:2004.
- Declaration of performance GER0513/09, certified and provided with CE-marking, MFPA Leipzig
- German General Building Inspectorate Approval, injection product for curtain grouting

PRODUCT INFORMATION

Packaging	Part A: 20 kg Part B: 24 kg
Colour	Part A: transparent yellowish, liquid Part B: brown, liquid
Shelf life	24 months
Storage conditions	In original packaging, stored in dry conditions between 15 - 25 °C, protected from heat, frost and direct sunlight.
Density	At 23 °C: (ISO 2811-1) Part A: ~1.03 kg/l Part B: ~1.23 kg/l
Viscosity	At 23 °C: (ISO 2555) Part A: ~190 mPas Part B: ~100 mPas Mixed A+B: ~140 mPas

TECHNICAL INFORMATION

Compressive strength	~74 N/mm ²	(DIN EN 12390-3)
Tensile strength	~29 N/mm ²	(DIN EN 12390-5)
Modulus of elasticity in tension	~2800 MPa	(DIN EN ISO 527)

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 (23 °C) (ASTM D7487)
Curing time	~24 hours (23 °C)

Reaction time

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		

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.

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 DE, 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 EQUIPMENT

Use SikalInject® Cleaner C1 or SikalInject® CL2 for pump-cleaning (non-cured resin). Cured material can only be removed mechanically.

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.

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ISO 9001, 14001, 45001 – SGS
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Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV
Sika MB Construction Chemicals LLC
Sika Construction Chemicals
for Manufacturing LLC
ISO 9001 – LMS
Sika MB LLC

All products are supplied under
a management system certified
to conform to the requirements
of the quality, environmental
and occupational health &
safety standards ISO 9001, ISO
14001 and ISO 45001.



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December 2024, Version 01.01
020707010020000056