

PRODUCT DATA SHEET

SikaInject®-501 DE

(formerly TPH.® FOAM SEAL PLUS)

Fast-reacting urea-silicate injection foam

PRODUCT DESCRIPTION

SikaInject®-501 DE is a 2-component, injection foam based on urea-silicate technology. It is fast-reacting, slightly flexible and treated with a flame retardant.

WHERE TO USE

SikaInject®-501 DE may only be used by experienced professionals.

SikaInject®-501 DE can be used in applications such as:

- Filling of cavities in tunneling, mining and civil engineering structures
- Solidification of rock as well as for stopping of intruding water
- Pre-injection, stabilization
- Rapid filling of voids and cavities
- TBM heading injection

PRODUCT INFORMATION

Packaging	Part A	26 kg	
	Part B	24 kg	
Colour	Part A	Colourless, liquid	
	Part B	Brown, liquid	
Shelf Life	24 months from date of production		
Storage Conditions	Store in original, unopened and undamaged sealed packaging in dry conditions, at temperatures between 5 °C and 35 °C (41 °F and 95 °F).		
Density	Part A	~1.3 kg/L	(23 °C, ISO 2811-1)
	Part B	~1.2 kg/L	

CHARACTERISTICS / ADVANTAGES

SikaInject®-501 DE provides the following characteristics and benefits:

- Large expansion; foaming factor ~30x
- Foams with or without water contact
- Fast curing
- Low reaction temperature (max. 95 °C (203 °F); suitable for applications such as coal mining)
- CFC and halogen-free
- Foam is cuttable and planeable

APPROVALS / CERTIFICATES

Screening of standard flammability (building material class B2) according to DIN 4102-1:1998-05; MFPA Leipzig
Ground water test; MFPA Leipzig 2019

Viscosity	Part A	~30 cps	(23°C, ISO 2555)
	Part B	~120 cps	

APPLICATION INFORMATION

Mixing Ratio	1:1 parts by volume		
Product Temperature	Minimum	15 °C (59 °F)	
	Maximum	30 °C (86 °F)	
Substrate Temperature	Minimum	5 °C (41 °F)	
	Maximum	40 °C (104 °F)	
Reaction Time	Temp. in °C (°F)	Start (min:s)	Rise (min:s) (ASTM D7487)
	5 (41)	01:30	03:45
	10 (50)	00:50	01:30
	15 (59)	00:40	01:10
	20 (68)	00:30	00:45
	25 (77)	00:25	00:35
	35 (95)	00:20	00:25

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

ENVIRONMENT, HEALTH & 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

MIXING

Part A and part B are pumped directly from the original packaging in the ratio of 1:1 parts by volume. Use a 2-component injection pump and mix homogeneously in a static mixer.

APPLICATION METHOD / TOOLS

Injection is done through packers or injection lances.

Note: Due to the open-cell structure and slight surface sanding characteristics, SikaInject®-501 DE does not reach its maximum foaming factor when used in confined spaces such as cracks, gaps, joints, etc. As a result, it forms dense, compact and resistant foam.

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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be

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Product Data Sheet

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