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# PRODUCT DATA SHEET Sikalnject<sup>®</sup>-301 DE

# 4-component meth-/acrylate based injection resin with high compressive strength

## DESCRIPTION

4-component meth-/acrylate based injection resin with extreme low viscosity. Hardens to form a product with high compressive strength.

#### USES

Sikalnject<sup>®</sup>-301 DE may only be used by experienced professionals.

soil and rock stabilisation

- consolidation of water-saturated sand
- masonry injection

## **CHARACTERISTICS / ADVANTAGES**

High-quality material base Good chemical resistance in hardened condition to many acids, alkalis, solvents, adhesives etc Adjustable potlife (see table)

## **PRODUCT INFORMATION**

Packaging	part A1: 20 kg part A2: 5 kg			
	part B1: 20 kg part B2: 0.4 kg			
	Larger packaging on request.			
Colour	part A1: transparent, liquid			
	part A2: colorless, liquid			
	part B1: transparent, liquid			
	part B2: white, solid			
Shelf Life	12 months in original packaging when stored correctly			
Storage Conditions	store in dry conditions between 15-25°C, protected from heat, frost and direct sunlight			
Density	part A1: ~ 1.07 kg/L (DIN EN ISO 3675) part A2: ~ 1.12 kg/L (DIN EN ISO 3675)			
	part A2: ~ 1.12 kg/L (DIN EN ISO 3675)			

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	part B1: ~ 1.04 kg/L (DIN EN ISO 3675) part B2: ~ 2.59 kg/L				
Viscosity	part A1: ~13 mPas (DIN EN ISO 2555) part A2: ~280 mPas (DIN EN ISO 2555) part B1: ~10 mPas (DIN EN ISO 2555) mixture: ~ 12 mPas (DIN EN ISO 2555)				
Consistency	hard-elastic after curing				
Compressive Strength	dried samples (DIN EN 12190) pure product: ~ 15.0 N/mm <sup>2</sup> with silica sand 0.1 - 0.3 mm: ~17.6 N/mm <sup>2</sup> with silica sand 0.7 - 1.2 mm: ~20.0 N/mm <sup>2</sup>				
	sample stored in water (DIN EN 12190) with silica sand 0.1 - 0.3 mm approx. 5.0 N/mm <sup>2</sup> The compressive strengths to be obtained depends on soil characteristics (composition, void content, water content etc.). Detecting the consolidation on-site by means of test injection is recom- mended.				

# **APPLICATION INFORMATION**

Mixing Ratio	component A : component B = 1:1 parts by volume				
Substrate Temperature	5 °C - 40 °C				
Pot Life	Potlife can be adjusted by varying quantity of part A2				
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	part A2	Potlife 10°C	Potlife 20°C		
	(kg)	(min:s)	(min:s)		
	0.15	19:00	13:00		
	0.20	16:00	10:00		
	0.25	12:00	08:30		
	0.50	06:30	04:00		
	1.00	03:20	02:00		
	1.50	02:10	01:20		
	2.00	01:55	01:10		
	2.50	01:50	01:00		
	5.00	01:00	00:40		
	mixed into 20 kg part A1				
Curing Time	~10 min - 30 min				

# **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.

# 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

**Product Data Sheet Sikalnject®-301 DE** January 2025, Version 01.01 020707020030000017 safety-related data.

# **APPLICATION INSTRUCTIONS**

#### MIXING

20 kg of part A1 mixed homogenously with 0.15 - 5.0 kg of part A2 (standard mixture with 2.5 kg of part A2). mixing time: 3 min part A1 + part A2 = component A

The activated, ready-for-use component A remains stable for approx. 24 hours.



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20 kg of part B1 are mixed homogenously with a solution consisting of 0.4 kg of part B2 in 1.7 l of water. mixing time: 3 min

part B1 + (part B2 + water) = component B

The activated component B remains stable for approx. 5 hours.

The activated components A and B are then applied in a mixing ratio of 1 : 1 parts by volume with suitable 2-C-injection pumps.

In case of using lower quantities of part A2 as given in standard mixture the "missing volume" in component A has to be replaced by water.

When using higher quantities of part A2 as given in standard mixture the corresponding water-quantity has to be added to component B.

In order to achieve the same volume in the activated components A and B.

#### **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**

Pump cleaning from liquid material with water only. Cured material can only be removed mechanically.

## 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

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