

PRODUCT DATA SHEET

SikaInject®-304 DE

(formerly TPH.® VARIOTITE®)

3-component polyacrylic injection resin for permanent watertight sealing

DESCRIPTION

SikaInject® 304 DE is a 3-component polyacrylic with adjustable potlife and extremely high elongation for curtain injection and permanent waterproofing according to EN 1504-5

USES

SikaInject®-304 DE may only be used by experienced professionals.

- Waterproofing of cracks, joints & honeycombs.
- Injection into masonry, concrete structures, civil engineering construction and tunneling.
- Repair of failed waterbars/expansion joints in combination with a polymeric strengthening (PS) compound.
- Curtain injection into ground and sand.

FEATURES

- Very low viscosity
- Adjustable potlife by different concentration of B-salt
- Injection by 2-C-pump, ideally with equipped water-flushing-pump
- Can be used in combination with polymeric strengthening compound SikaInject® 315 PS
- CE-Marked as stand-alone and with polymeric strengthening compound (PS)
- Watertight up to 7 bar (with PS)

CERTIFICATES AND TEST REPORTS

- Concrete injection for swelling sealing of cracks, voids and interstices (S) according to EN 1504-5:2004. Declaration of performance GER0513/24, CE-marking
- Watertightness test up to 7 bar (with PS)
- General Building Approval for Curtain Injection

PRODUCT INFORMATION

Packaging	SikaInject® 304 DE, part A1: 20 kg SikaInject® 304 DE, part A2: 0.5 kg SikaInject® 304 DE, part B: 1 kg Refer to current price list for packaging variations.
Colour	SikaInject® 304 DE, part A1: transparent, liquid SikaInject® 304 DE, part A2: colorless, liquid SikaInject® 304 DE, part B: white, solid
Shelf life	12 months from date of production
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperature between +10 °C and +25 °C.
Density	SikaInject® 304 DE, part A1: ~1.22 kg/l (23° C, ISO 3675) SikaInject® 304 DE, part A2: ~0.93 kg/l (23° C, ISO 3675) SikaInject® 304 DE, part B: ~2.59 kg/l

Viscosity

SikaInject® 304 DE, part A1: ~65 mPas (23°C, ISO 2555)
SikaInject® 304 DE, part A2: ~7.5 mPas (23°C, ISO 2555)
Mixed Viscosity: ~4 mPas (DIN EN ISO 3219)

TECHNICAL INFORMATION

Swelling	~25 %	
Elongation at break	~750 %	(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	10 s - 7 min	(DIN EN 14022)
Curing time	1 min - 30 min	

Reaction time	SikaInject-304 DE				
	Temp.	Potlife (min:s)			
	25° C	01:20	00:30	00:15	00:10
	20° C	01:30	00:45	00:20	00:15
	15° C	02:30	01:00	00:30	00:20
	10° C	04:30	01:40	00:45	00:25
	5° C	07:20	02:40	01:15	00:40
		40 g	200 g	600 g	1000 g
	Quantity of B-Salt in 17 kg water				
	related to 20 kg part A1 and 0.5 kg part A2				

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

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

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

All parts are provided in pre-assembled container sizes to the correct mixing ratio.

1. Component A

Empty the smaller container (Part A2) completely into the container of Part A1. Mix the parts thoroughly with a suitable stirrer/mixing paddle for 3 minutes.

2. Component B

Part B is a powder and must be dissolved in 17 L of clean water. Mix for 3 minutes.

Components A and B prepared in this way are ready for use. The activated components A and B are stable during 4 hours and are applied by a 2-C-pump in the ratio of 1:1 parts by volume.

APPLICATION METHOD / TOOLS

Reference must be made to further documentation where applicable, such as relevant method statement, application manual and installation or working instructions. When used in curtain injections potlife > 2 min is recommended to achieve better ground penetration. Also for repair of expansion joints when used in combination with SikalInject® 315 PS potlife adjusted to > 2 min is recommended.

CLEANING OF EQUIPMENT

Pump cleaning from liquid material with water only. 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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ISO 9001, 14001 – SGS
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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