

PRODUCT DATA SHEET

SikaInject®-304 DE

(formerly TPH.® VARIOTITE®)

3-component polyacrylic injection resin for permanent watertight sealing

PRODUCT DESCRIPTION

SikaInject® 304 DE is a 3-component polyacrylic with adjustable potlife and extremely high elongation for curtain injection and permanent waterproofing.

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.

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)

CHARACTERISTICS / ADVANTAGES

- 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)

APPROVALS / STANDARDS

- Watertightness test up to 7 bar (with PS)
- General Building Approval for Curtain Injection

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	SikalInject-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					

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

REGULATION (EC) NO 1907/2006 - REACH

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

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

2. Component B

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

The activated components A & B are stable during 4h 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 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 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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Product Data Sheet

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