

## 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 resin with adjustable potlife and extremely high elongation for curtain injection and permanent waterproofing according to EN 1504-5.

### WHERE TO USE

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

### 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 / CERTIFICATES

- 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

<b>Packaging</b>	SikaInject®-304 DE: Part A1: 20 kg Part A2: 0.5 kg Part B: 1 kg Refer to current price list for packaging variations.
<b>Colour</b>	Part A1: transparent, liquid Part A2: colourless, liquid Part B: white, solid
<b>Shelf Life</b>	12 months from date of production
<b>Storage Conditions</b>	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperature between +10 °C and +25 °C.

Density	Part A1: ~1.22 kg/L (at 23 °C, ISO 3675) Part A2: ~0.93 kg/L (at 23 °C, ISO 3675) Part B: ~2.59 kg/L
Viscosity	Part A1: ~65 mPas (at 23 °C, ISO 2555) Part A2: ~7.5 mPas (at 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 (minutes)			
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

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

### 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 contents of the small container (Part. A2) completely into the container of Part A1. Mix the parts thoroughly with a suitable stirrer/mixing paddle for

three (3) minutes.

## 2. Component B

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

The activated components A & B are stable during 4 h and are applied by a 2-c pump at 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, a potlife of more than two (2) minutes is recommended to achieve better ground penetration.
- For repair of expansion joints, when used in combination with SikalInject® 315 PS, a potlife adjusted to more than two (2) minutes is recommended.

### CLEAN UP

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 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 downloaded from our website at: [www.sika.ca](http://www.sika.ca)

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#### Other locations

Boisbriand (Quebec)  
Brantford; Cambridge;  
Sudbury; Toronto (Ontario)  
Edmonton (Alberta)  
Surrey (British Columbia)

#### Product Data Sheet

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