

PRODUCT DATA SHEET

SikaInject®-304 DE

(formerly TPH.® VARIOTITE®)

Polyacrylic injection resin for permanent, watertight sealing

PRODUCT DESCRIPTION

SikaInject®-304 DE is a 3-component polyacrylic resin with adjustable pot life and extremely high elongation, designed for curtain injection and permanent waterproofing according to EN 1504-5.

WHERE TO USE

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

SikaInject®-304 DE can be used in the following applications, but is not limited to:

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

CHARACTERISTICS / ADVANTAGES

SikaInject®-304 DE provides the following characteristics and benefits:

- Very low viscosity
- Adjustable pot life by different concentration of part B
- 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 SikaInject® 315 PS
- Watertight up to 7 bar with SikaInject® 315 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

Packaging	Part A1	20 kg
	Part A2	0.5 kg
	Part B	1 kg
Colour	Part A1	Transparent, liquid
	Part A2	Colourless, liquid
	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	Part A1	~1.22 kg/L	(23 °C, ISO 3675)
	Part A2	~0.93 kg/L	
	Part B	~2.59 kg/L	
Viscosity	Part A1	~65 cps	(23 °C, ISO 2555)
	Part A2	~7.5 cps	
	Mixed Viscosity	~4 cps	(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	Minumum	5 °C			
	Maximum	35 °C			
Substrate Temperature	Minimum	5 °C			
	Maximum	35 °C			
Pot Life	10 s - 7 min				(DIN EN 14022)
Curing Time	1 min - 30 min				
Reaction Time	Temp. (°C)	Pot Life (min:s)			
	Quantity of Part B*	40 g	200 g	600 g	1000 g
	25	01:20	00:30	00:15	00:10
	20	01:30	00:45	00:20	00:15
	15	02:30	01:00	00:30	00:20
	10	04:30	01:40	00:45	00:25
	5	07:20	02:40	01:15	00:40
	* Quantity of Part B in 17 kg water related to 20 kg Part A1 and 0.5 kg Par 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.

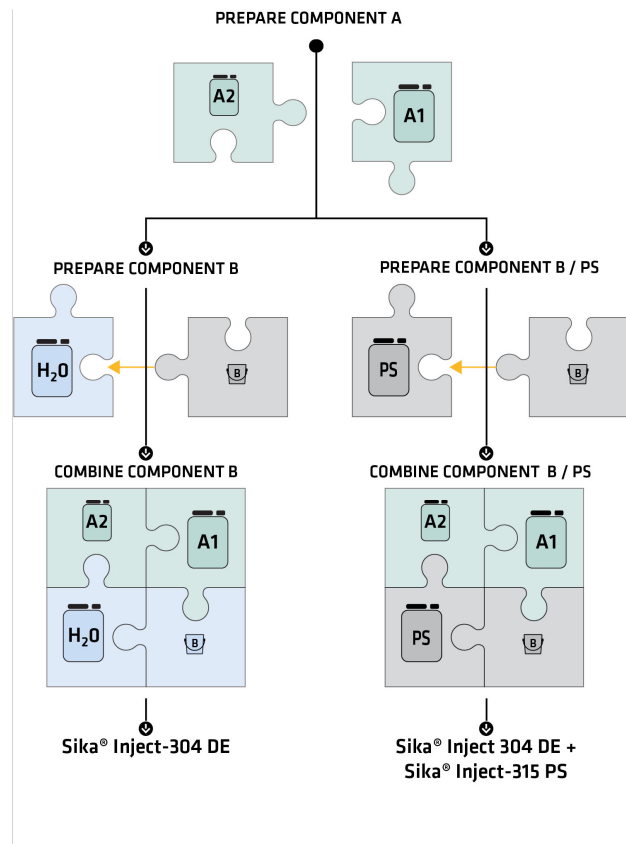
Components A and B prepared in this way are ready for use. The activated components A and B are stable during 4 hours and are applied by a 2-C-pump in the ratio of 1:1 parts by volume.

Refer to the following schematic for the preparation of SikalInject®-304 DE. Consult the appropriate Product Data Sheet for SikalInject®-304 DE PS used with the polymeric strengthening compound SikalInject® 315 PS.

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 pot life 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 pot life 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

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Product Data Sheet

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