

# PRODUCT DATA SHEET

## SikaFuko® VT-1

### RE-INJECTABLE HOSE FOR SEALING CONSTRUCTION JOINTS

#### DESCRIPTION

SikaFuko® VT-1 is a re-injectable hose for sealing various construction and connection joints in watertight concrete structures. To seal the joint, SikaFuko® VT-1 is injected with suitable Sika® Injection materials, such as acrylate and microfine cement suspensions (for multiple injections) or polyurethane and epoxy resins (for single injection). With the integrated 'valve techniques' the hose can be used to re-inject multiple times if necessary.

#### USES

- Sealing construction and connection joints
- Suitable for many different structures and construction methods where additional joint security/safety is required
- Prevents water ingress through concrete joints in the following typical structures: Water retaining or excluding structures, water reservoirs, dams, canals, sewage treatment plants, tunnels, subways, retaining walls
- As a back-up system for waterbars
- Enables testing for water leaks

#### CHARACTERISTICS / ADVANTAGES

- Uses unique 'valve techniques' for injection
- Multiple re-injections with Sika injection acrylate resins or microfine cement suspensions
- One-time injectable with Sika injection polyurethane and epoxy resins
- Easy and secure installation
- Tested in water pressures up to 10 bar (100 m)
- External test reports for suitable injection material
- Ideal back-up system in combination with waterbars
- Long-term references on many international projects

#### APPROVALS / STANDARDS

- Water Tightness Test Report with Sika Injection-307, WISSBAU, No.2016-347
- Water Tightness Test Report with Sika Injection-306, WISSBAU, No.2002-094-01
- Injectability Test Report with Sika Injection-201 CE, MFPA Leipzig, No.PB5.1/13.520
- Water Tightness Test Report with Sika Injection-201 CE, WISSBAU, No.2008-163-1

#### PRODUCT INFORMATION

<b>Composition</b>	Yellow inner core	PVC
	Yellow profile strips	Neoprene based cellular rubber
	Mesh	Polyester

<b>Packaging</b>	Supplied as a Combi-pack in a cardboard box containing:
	<ul style="list-style-type: none"> <li>▪ 200 m SikaFuko® VT-1</li> <li>▪ 10 m green PVC-hose (inlet)</li> <li>▪ 10 m white PVC-hose (outlet)</li> <li>▪ Accessories (2 m connecting pipe, 4 m heat shrink sleeve , × 50 closure plugs, 1 can of glue, 1 roll of tape, × 800 fastening clips)</li> </ul> <p>Note: All accessories including inlet and outlet PVC-hose are available separately. Refer to current price list for packaging variations.</p>

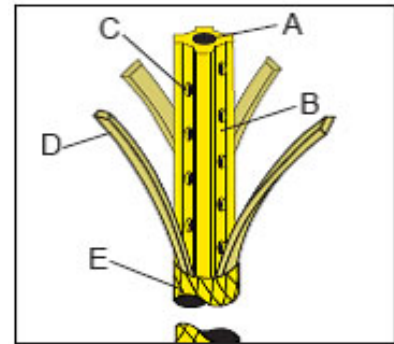
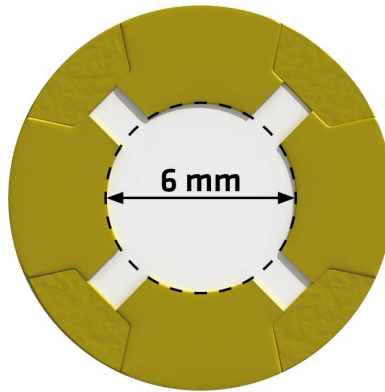
<b>Appearance / Colour</b>	Yellow - PVC hose core with lateral openings along the groove. A compressible neoprene strip is secured by a mesh into the groove.	
<b>Shelf Life</b>	48 months from date of production	
<b>Storage Conditions</b>	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C. Always refer to packaging.	
<b>Diameter</b>	Internal hose diameter	6 mm
	External hose diameter	13.5 mm

## TECHNICAL INFORMATION

<b>Shore A Hardness</b>	Yellow inner core	85 ±3	(DIN EN ISO 868)
	Yellow profile strips	20 ±5	
<b>Elongation</b>	Yellow inner core	≥ 250 %	(DIN EN ISO 527)
	Yellow profile strips	≥ 300 %	
	Mesh	≥ 30 %	

## SYSTEM INFORMATION

### System Structure



A	Injection channel
B	Solid hose core made of high quality PVC compound
C	Lateral grooves with staggered injection openings
D	Compressible neoprene profile strips (as 'valves') over the longitudinal grooves
E	Fine webbed nylon mesh for secure fixing of the neoprene profiles

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

Concrete surface must be clean and all loose materials removed before installing hose and placing concrete.

### APPLICATION METHOD / TOOLS

Reference must be made to the Sika® Method Statement: SikaFuko® VT System. Contact Sika Technical Services for additional information.

### FURTHER DOCUMENTS

- Sika® Method Statement: SikaFuko® VT System

### IMPORTANT CONSIDERATIONS

Installation work must only be carried out by Sika® trained, approved or competent contractors experienced in this type of application.

- Do not use SikaFuko® VT-1 for sealing expansion / movement joints.
- SikaFuko® VT-1 will only seal the joint if injected by suitable Sika® injection materials.
- Re-injection must be carried out with the tested injection materials referenced in the test reports.

### 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.

### 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.

## ECOLOGY, HEALTH AND SAFETY

### REGULATION (EC) NO 1907/2006 - REACH

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w)

### 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.

#### Sika Kimia Sdn. Bhd.

Lot 689, Nilai Industrial Estate, 71800 Nilai  
Negeri Sembilan D.K., Malaysia  
Phone: +606-7991762  
Fax: +606-7991980  
e-mail: info@my.sika.com  
Website: www.sika.com.my



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