



PRODUCT DATA SHEET

SikaFuko® VT-1

RE-INJECTABLE HOSE FOR SEALING CONSTRUCTION JOINTS

PRODUCT 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.

WHERE TO USE

- 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 waterstops
- 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 (328 ft)
- External test reports for suitable injection material
- Ideal back-up system in combination with waterstops
- Long-term references on many international projects

PRODUCT INFORMATION

CSC MasterFormat®

03 15 13 | WATERSTOPS

Composition / Manufacturing

Yellow inner core	PVC
Yellow profile strips	Neoprene based cellular rubber
Mesh	Polyester

Packaging

SikaFuko® VT-1 is supplied as a Combo-pack in a box containing:

- 200 m (656 ft) SikaFuko® VT-1
- 10 m (32.8 ft) PVC inlet pipe (green)
- 10 m (32.8 ft) PVC outlet pipe (transparent)
- Accessories: 2 m (6.5 ft) of Connection Pipe, 4 m (13 ft) of Heat-shrink

Sleeve, 50 Closure Plugs, 1 can of Rapid Glue, 1 roll of Tape, 800 Fastening Clips)

Note: System components are also available as individual pieces.

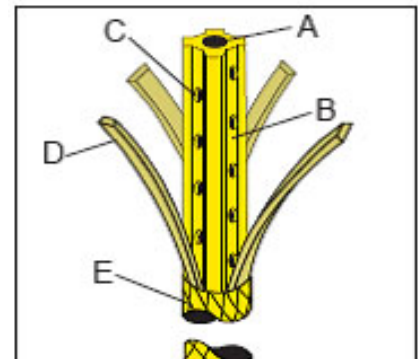
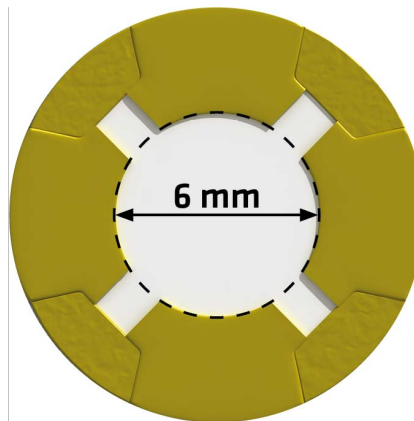
Appearance / Colour	Yellow - PVC hose core with lateral openings along the groove. A compressible neoprene strip is secured by a mesh into the groove.	
Shelf Life	2 years if stored properly in unopened, sealed and undamaged original packaging.	
Storage Conditions	Store and transport under dry conditions and at temperatures between 5 °C and 35 °C (41 °F and 95 °F).	
Diameter	Internal hose diameter	6 mm
	External hose diameter	13.5 mm

TECHNICAL INFORMATION

Shore A Hardness	Yellow inner core	85 ±3	(DIN EN ISO 868)
	Yellow profile strips	20 ±5	
Tensile Strength	Yellow inner core:	≥ 14 MPa (2030 psi)	(DIN EN ISO 527)
	Yellow profile strips:	≥ 3 MPa (435 psi)	
	Mesh:	≥ 30 MPa (4370 psi)	
Elongation	Yellow inner core	≥ 250 %	(DIN EN ISO 527)
	Yellow profile strips	≥ 300 %	
	Mesh	≥ 30 %	

SYSTEMS

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

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.

Properties tested at +23 °C (73 °F) and 50 % R.H. unless stated otherwise.

LIMITATIONS

- 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.

ENVIRONMENT, HEALTH & SAFETY

This product is a manufactured article that does not require Safety Data Sheets to be marketed, transported or applied at the jobsite, according to the Hazardous Product Act - Section 2. Based on our current knowledge, this product is not classified as dangerous and does not contain any hazardous materials. Always wear personal protective equipment (including safety goggles and gloves) to manipulate and install Sika® products.

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 Canada for additional information.

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

Sika Canada Inc.

Head Office
601, avenue Delmar
Pointe-Claire, Quebec
H9R 4A9
1-800-933-SIKA
www.sika.ca

Other locations

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

Product Data Sheet

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