



PRODUCT DATA SHEET

SikaFuko® VT-2

INJECTABLE HOSE SYSTEMS WITH INTEGRAL 'VALVES' FOR SEALING CONSTRUCTION JOINTS IN WATERTIGHT STRUCTURES

PRODUCT DESCRIPTION

SikaFuko® VT-2 is an injectable hose system with unique integral valves. It is designed and proven to seal and, where required, reseal construction joints in watertight structures against water and salt water ingress. The hoses consist of a perforated inner, PVC core, profiled neoprene rubber flanges, both contained within a polyester mesh. If and when it becomes necessary to seal construction joints by injecting through SikaFuko® VT-2, this can be done using Sika® injection materials based on acrylic, epoxy and polyurethane resins or microfine cement suspensions.

WHERE TO USE

- SikaFuko® VT-2 is fixed and then cast into construction joints during the concrete pour to seal structures against the ingress of water and salt water.
- SikaFuko® VT-2 can be left as is at time of construction and injected at a future date with suitable Sika® injection materials
- SikaFuko® VT-2 allow injection and reinjection of construction joints to maintain waterproofing properties.

CHARACTERISTICS / ADVANTAGES

- Uses unique valve technology for injection
- Re-injectable with Sika® acrylic resins and microfine cement suspensions
- One-time injectable with Sika® polyurethane resins
- Easy to install
- Tested against water pressure up to 10 bar (100 m)
- Suitable for many different forms of structures and construction methods
- Long-term references on many international projects

APPROVALS / CERTIFICATES

- MPA NRW: P-22-MPANRW-2368/2 - German Approval for use in construction joints (01.12.04)
- WISSBAU: Tested for use in construction joints (28.01.04)

PRODUCT INFORMATION

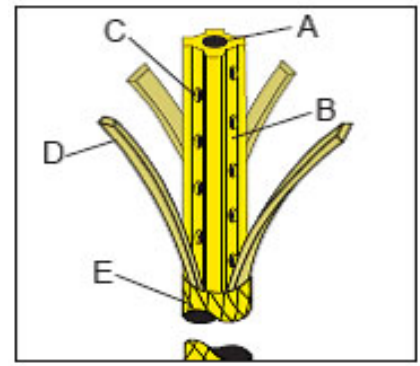
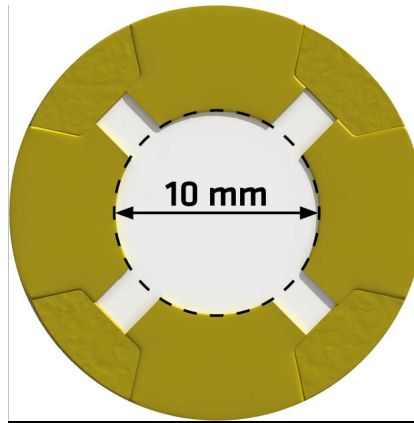
Composition / Manufacturing	Yellow inner core	PVC
	Yellow profile strips	Neoprene based cellular rubber
	Mesh	Polyester
Packaging	SikaFuko® VT-2 is supplied as a Combo-pack in a box containing: - 125 m (410 ft) SikaFuko® VT-2 - 8 m (26 ft) PVC inlet pipe (green) - 8 m (26 ft) PVC outlet pipe (white or 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, 500 Fastening Clips) Note: System components are also available as individual pieces.	
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 and 35 °C (41 and 95 °F).	
Diameter	Internal hose diameter	10 mm
	External hose diameter	24 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) Yellow profile strips: ≥ 3 MPa (435 psi) Mesh: ≥ 30 MPa (4370 psi)		[DIN EN ISO 527]
Elongation	Yellow inner core	≥ 250 %	(DIN EN ISO 527)
	Yellow profile strips	≥ 300 %	
	Mesh	≥ 30 %	

SYSTEMS

System Structure



A	Injection channel (internal clearance VT 1: 6 mm [1/4 in] VT 2 10 mm [3/8 in])
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.

OTHER DOCUMENTS

- Sika® Method Statement: SikaFuko® VT System

LIMITATIONS

- SikaFuko® VT-2 is best installed by skilled and experienced contractors. Consult Sika Canada Technical Services for advice and recommendations.
- Do not use SikaFuko® VT-2 for sealing expansion / movement joints.
- SikaFuko® VT-2 inlet and outlet locations must be accurately recorded and the pipes must be protected from being filled and obstructed during the pouring of concrete. Failure to do so may prevent injection from being possible later.
- Do not crimp or kink the SikaFuko® hose otherwise it

- may reduce or stop the flow of injection material.
- Substrate Temperature: 5 °C min. / 35 °C max.
- Ambient Air Temperature: 5 °C min. / 35 °C max.

ENVIRONMENT, HEALTH & SAFETY

HAZARDOUS PRODUCT ACT - SECTION 2

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 Technical Services 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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