

PRODUCT DATA SHEET

SikaFuko® VT-1

INJECTABLE VALVE HOSE FOR SEALING CONSTRUCTION JOINTS IN WATERTIGHT STRUCTURES

DESCRIPTION

SikaFuko® VT-1 is a durable circular injectable hose with unique integral 'valves' for sealing construction joints in watertight structures against hydrostatic water or salt water pressure. It is installed onto an existing concrete joint surface before pouring the next stage of concrete.

The tough hose construction and fixing components prevents deformation and movement during concrete pouring.

To seal the joint, SikaFuko® VT-1 can be injected with suitable Sika injection materials including acrylic / polyurethane resins or microfine cement suspensions. Integrity of the joint can be maintained by re-injection, provided Sika acrylic resin or microfine cement has been used for the initial injection. Internal core diameter: 6 mm. External hose diameter: 13.5 mm.

USES

- Replaces waterbars used for construction joints
- Sealing all types of construction joint configurations subject to hydrostatic pressure on one or both faces of a structure
- 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

CHARACTERISTICS / ADVANTAGES

- Uses unique valve techniques for injection
- No drilling necessary for injection works
- No additional formwork or reinforcement works
- Maintenance free
- Enables testing for water leaks
- Re-injectable with Sika Injection acrylic 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 (100m)
- Suitable for many different structures and construction methods
- Ideal back-up in combination with waterbars
- Long-term references on many international projects

APPROVALS / STANDARDS

- 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
- Water Tightness Test Report with Sika Injection-306, WISSBAU, No.2002-094-01
- Water Tightness Test Report with Sika Injection-307, WISSBAU, No.2016-347

PRODUCT INFORMATION

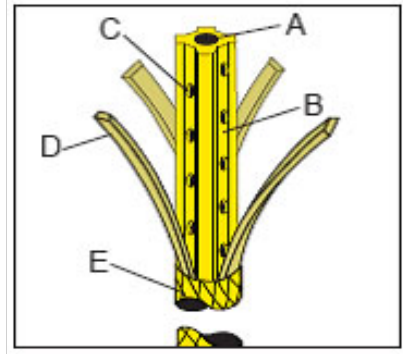
Chemical Base	Yellow inner core	PVC
	Yellow profile strips	Neoprene based cellular rubber
	Mesh	Polyester
Packaging	Supplied as a Combi-pack in a cardboard box containing: <ul style="list-style-type: none">▪ 200 m SikaFuko® VT-1▪ 10 m green PVC-hose (inlet)▪ 10 m white PVC-hose (outlet)▪ Accessories (2 m connecting pipe, 4 m heat shrink sleeve , x 50 closure plugs, 1 can of glue, 1 roll of tape, x 800 fastening clips)▪ Also available as pre-fabricated, made to measure sections in special packs with accessories to suit for special projects (details on request). Refer to current price list for packaging variations.	
Shelf Life	48 months from date of production	
Storage Conditions	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.	

TECHNICAL INFORMATION

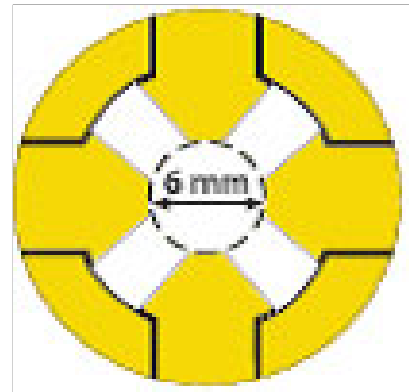
Shore A Hardness	Yellow inner core	85 +/- 3	(DIN EN ISO 868)
	Yellow profile strips	20 +/- 5	
Tensile Strength	Yellow inner core	≥ 14 N/mm ²	(DIN EN ISO 527)
	Yellow profile strips	≥ 3 N/mm ²	
	Mesh	≥ 30 N	
Elongation	Yellow inner core	≥250%	(DIN EN ISO 527)
	Yellow profile strips	≥ 300%	
	Mesh	≥ 30%	

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
Internal diameter	



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.

FURTHER DOCUMENTS

- Method Statement: SikaFuko® VT System

LIMITATIONS

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

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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.

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.

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