

PRODUCT DATA SHEET

SikaFuko® Eco-1

PVC re-injectable hose for sealing construction joints

DESCRIPTION

SikaFuko® Eco-1 is a re-injectable hose for sealing various construction joints in watertight concrete structures. To seal the joint, SikaFuko® Eco-1 is injected with suitable Sika® Injection materials, such as acrylate and cement suspensions (for multiple injections) or polyurethane resins (for single injection).

USES

- Sealing construction 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

- Multiple re-injections with Sika® injection acrylate resins or microfine cement suspensions
- One time injectable with Sika® injection polyurethane injection resins
- Ideal back-up solution for combination with water-stops
- Easy to secure and install
- Tested in water pressures up to 10 bar (100m)
- Suitable for many different structures and construction methods

APPROVALS / STANDARDS

- General Building Inspection Test Certificate, SikaFuko® Eco-1, MPA NRW, Cert No.P-22-MPANRW-8239
- Water Tightness Test Report with Sika Injection-306, WISSBAU, No.2002-094-(2)
- Water Tightness Test Report with Sika Injection-201 CE, WISSBAU, No.2014-158

PRODUCT INFORMATION

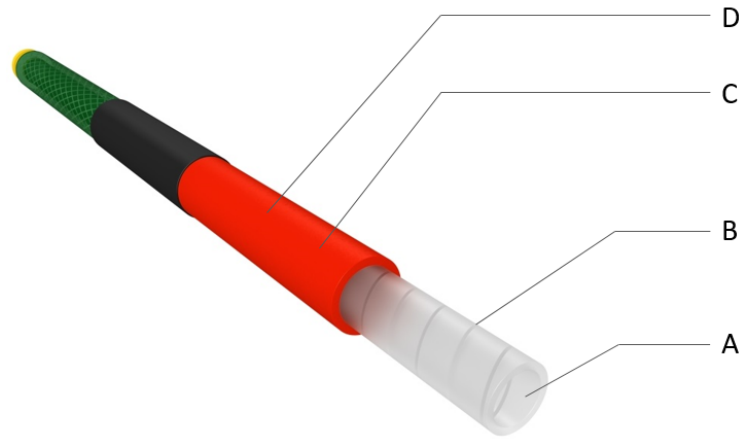
Chemical Base	White inner core	PVC
	Red outer layer	Foamed plastic
Packaging	Combi-pack box containing: <ul style="list-style-type: none">▪ 200 m or 50 m SikaFuko® Eco-1 hose▪ 10 m green PVC-hose (Inlet)▪ 10 m white PVC-hose (Outlet) Accessories <ul style="list-style-type: none">▪ 2 m connecting pipe▪ 4 m heat shrink sleeve▪ 50 closure plugs▪ 1 can of adhesive▪ 1 roll of tape▪ 800 fastening clips All accessories including inlet and outlet PVC-hose can also be ordered separately. 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.	
Diameter	Internal hose diameter	6 mm (1/4")

TECHNICAL INFORMATION

Shore A Hardness	White inner core	D 50 +/- 3	(DIN 53505)
	Red outer layer	A 80 +/- 5 (not expanded)	(DIN 53505)
Tensile Strength	White inner core	≥ 10 N/mm ²	(DIN 53504)
	Red outer layer	≥ 10 N/mm ² (not expanded)	(DIN 53504)
Elongation	White inner core	≥ 100 %	(DIN 53504)
	Red outer layer	> 50 %	(DIN 53504)

SYSTEM INFORMATION

System Structure	SikaFuko® Eco-1
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A	Injection channel
B	White perforated PVC spiral hose core to support the concrete pressure
C	Foamed plastic outer layer as a sealing membrane and to prevent cement paste penetration during concreting
D	Staggered slot perforations in the foamed plastic outer layer for the uniform discharge of injection resins

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

- Sika® Method Statement: SikaFuko® VT System

LIMITATIONS

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

ECOLOGY

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 this 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)

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

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

APPLICATION METHOD / TOOLS

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

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

SikaFuko® Eco-1 injection hose can also be used in combination with different waterstop profiles: Internally placed expansion joint waterstops, internally placed expansion joint waterstops with lateral steel plates and externally placed expansion joint and construction joint waterstops. Refer to Sika® Method Statement: SikaFuko® VT System or contact Sika Technical Services for additional information.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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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Product Data Sheet

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