

PRODUCT DATA SHEET

SikaFuko® Eco-1

PVC Re-injectable Hose For Sealing Construction Joints

PRODUCT 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 waterstops
- Easy to secure and install
- Tested in water pressures up to 10 bar (100m)
- Suitable for many different structures and construction methods

PRODUCT INFORMATION

Chemical Base

White inner core

PVC

Red outer layer

Foamed plastic

Packaging

Combi-pack box containing:

- 200 m or 50 m SikaFuko® Eco-1 hose
- 10 m green PVC-hose (Inlet)
- 10 m white PVC-hose (Outlet)

Accessories

- 2 m connecting pipe
- 4 m heat shrink sleeve
- 50 closure plugs

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- 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")	

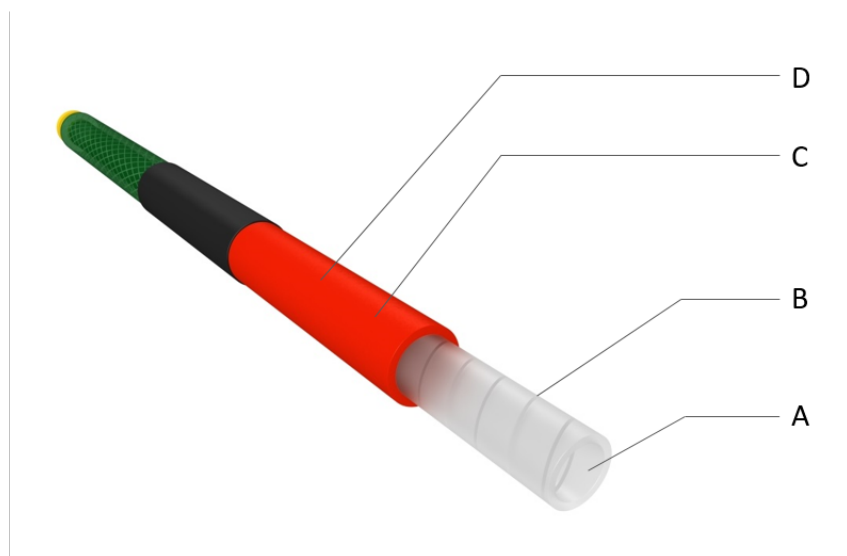
TECHNICAL INFORMATION

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



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

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.

AVAILABILITY/WARRANTY

- 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.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, 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 DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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