

PRODUCT DATA SHEET

SikaFuko® Swell-1

Re-injectable hose with hydrophilic swellable strips for sealing construction joints

DESCRIPTION

SikaFuko® Swell-1 is a re-injectable hose with hydrophilic swellable strips for sealing various construction joints in watertight concrete structures. The joint is sealed in 2 phases: Phase 1 - Swelling by water or salt water penetration, and Phase 2 - By injection and re-injection at a later stage with suitable Sika® Injection materials, such as acrylate and microfine cement suspensions.

USES

SikaFuko® Swell-1 may only be used by experienced professionals.

- 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
- Enables testing for water leaks

CHARACTERISTICS / ADVANTAGES

- 2 phase joint sealing by swelling and injection
- Multiple re-injections with Sika injection acrylate resins or microfine cement suspensions
- Suitable for many different structures and construction methods
- Easy and secure installation
- Ideal back-up in combination with waterbars

PRODUCT INFORMATION

Packaging

Combi-pack box containing:

- 40 m SikaFuko® Swell-1 hose
- 6 Injection Port Assemblies (Double Shutter-Packers) with connection pieces and connection hoses
- 200 fixing clips
- 6 corner connection pieces

Additional corner connection pieces and fixing clips 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	<u>Internal hose diameter</u>	<u>8 mm</u>
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TECHNICAL INFORMATION

Change of Volume	Swelling parts (yellow):		
	<u>7 days in salt water</u>	<u>≥ 150 %</u>	(DIN 53521)
	<u>7 days in tap water</u>	<u>≥ 300 %</u>	

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

- SikaSwell S-2 Product Data Sheet

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® Swell-1 for sealing expansion / movement joints.
- SikaFuko® Swell-1 will only seal the joint if injected by suitable injection materials.
- Re-injection must be carried out with approved Sika® injection materials.

ECOLOGY 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 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

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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