SikaFuko® ECO 1
Injection Hose System for Single Injections

SikaFuko® ECO 1 (formerly Duroproject) is an economical injection hose for planned sealing of construction joints. SikaFuko® ECO 1 enables a controlled injection of the construction joint for a reliable waterproofing system.

SikaFuko® ECO 1 is designed to deliver resin and microfine cements through a spiral cut injection channel and perforated foam jacket. Unlike SikaFuko® VT, it is not for applications that may require multiple injections.

Installation follows a procedure similar to that used for SikaFuko® VT described on the preceding page. Contact a Sika Greenstreak Engineer for specific details.

SikaFuko® VT and SikaFuko® ECO 1 hoses and accessories are available for purchase individually or in prepackaged Combipack kits.

Injection Materials for use with SikaFuko® Injection Hose Systems

Sika® Inject 215

Sika® Inject 215 is a highly flexible and solvent free, acrylate resin hydrogel for waterproofing concrete construction joints with SikaFuko® VT or SikaFuko® ECO 1 Injection Hose Systems. Sika® Inject 306 achieves very good penetration and has an adjustable reaction time between 8 and 50 minutes.

LIMITED WARRANTY: Sika Greenstreak warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer’s sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA GREENSTREAK SHALL NOT BE RESPONSIBLE FOR DAMAGES OR INJURY, WHETHER DIRECT OR CONSEQUENTIAL, RESULTING FROM THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SIKA GREENSTREAK SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA GREENSTREAK useNewUrlParser the preceeding page. Contact for a Sika Greenstreak Engineer for specific details.

Our most current General Sales Conditions shall apply. Please consult the Product Data Sheet prior to any use and processing.
SikaFuko® VT Injection Hose System

SikaFuko® VT Basic Use
SikaFuko® VT is an injection hose system embedded along concrete construction joints to deliver cements or resins into cracks or voids to create a watertight joint. After each injection, the hose can be cleaned for future injections, providing a long term maintenance program should further breaching at the joint occur.

The SikaFuko® VT Advantage
- Exclusive "valve" design allows for repeated injections
- Provides long term maintenance program
- Suitable for a wide range of injection materials
- Can be injected with water to test for watertightness in a safe and simple manner
- Proven performance record around the world
- Does not require split forming
- Suitable for a wide range of injection materials
- Can be injected with water to test for watertightness
- Proven performance record around the world
- Does not require split forming
- Available in two sizes

SikaFuko® VT Design
- Solid hose core made of high quality PVC. The core is capable of absorbing concrete pressure to ensure the integrity of injection channel.
- Lateral, staggered injection openings to ensure uniform discharge of the injection material.
- Compressible neoprene strips in the longitudinal grooves are a unique and extremely important element of the SikaFuko® VT Hose System. These strips act as valves during injection and as a seal while cleaning the tube for re-injection.

SikaFuko® VT Installation
SikaFuko® VT can be installed in lengths up to 33 feet. This length includes the fiber reinforced PVC ends. If longer lengths are required, please contact a Greenstreak Engineer.

SikaFuko® VT requires a minimum 2” concrete cover and a minimum 2” clearance between two parallel hose sections (Figure 1). Intersecting hoses are required in most applications. The injection portion of the hose must maintain intimate contact with the concrete; vent sections can be overlapped (Figure 1).

1. Secure the SikaFuko® VT Hose to a flat, smooth concrete surface using special plastic clips or pipe clips every 8"-10” on center (see figures 1 and 2). SikaFuko® VT should not be installed in a buckled or constricted manner, nor should it be attached to reinforcing bars.

2. If injection of the SikaFuko® VT Hose is required, the injection pump is connected to the PVC vent ends. Fiber reinforced PVC vent ends should be exposed at the exterior in convenient, accessible locations for future injections. Junction boxes, nail packers, or simply continuing fiber reinforced vent ends to the outside of the concrete can be utilized (see figure 3).

3. When using junction boxes, continue fiber reinforced vent ends roughly 4” into the junction box. Tie vent ends together inside the junction box using cable ties or tie wire to secure during concrete placement.

SikaFuko® VT 1
- 6mm ID Hose
- 3mm Injection Ports on 20mm centers
- 13.5mm OD Hose

SikaFuko® VT 2
- 10mm ID Hose
- 5mm Injection Ports on 25mm centers
- 24mm OD Hose

Fabricating SikaFuko® VT Hose
1. Cut the SikaFuko® VT Injection Hose to the desired length.
2. Attach fiber reinforced PVC vent ends to the SikaFuko® VT Hose using connecting nozzles, rapid glue, and shrink-on sleeves.
3. Closure plugs are installed on the fiber reinforced PVC vent ends to prevent impurities from entering the hose.

See SikaFuko® VT Hose Assembly and Fabrication Guide for complete instructions.
SikaFuko® VT Injection Hose System

The SikaFuko® VT Advantage
- Exclusive "valve" design allows for repeated injections
- Provides long term maintenance program
- Suitable for a wide range of injection materials
- Injection hose can be injected with water to test for water tightness

SikaFuko® VT Design
- Solid hose core made of high quality PVC. The core is capable of absorbing concrete pressure to ensure injection integrity.
- Lateral, staggered injection openings to ensure uniform discharge of the injection material.
- Compressible neoprene strips in the longitudinal grooves act as valves preventing impurities from entering the hose.
- Connection to reinforcing bars is not required.

SikaFuko® VT Basic Use
SikaFuko® VT is an injection hose system embedded along concrete construction joints to deliver cements or resins into cracks or voids to create a watertight joint. After each injection, the hose can be cleaned for future injections, providing a long term maintenance program should further breaching at the joint occur.

SikaFuko® VT Installation
SikaFuko® VT can be installed in lengths up to 33 feet. This length includes the fiber reinforced PVC ends. If longer lengths are required, please contact a Greenstreak Engineer.

SikaFuko® VT Installation
SikaFuko® VT requires a minimum 2" concrete cover and a minimum 2" clearance between two parallel hose sections (Figure 1).

1. Secure the SikaFuko® VT Hose to a flat, smooth concrete surface using special plastic clips or pipe clips every 8" - 10" on center (see figures 1 and 2). SikaFuko® VT should not be installed in a buckled or constricted manner, nor should it be attached to reinforcing bars.
2. If injection of the SikaFuko® VT Hose is required, the injection pump is connected to the PVC vent ends. Fiber reinforced PVC vent ends should be exposed at the exterior in convenient, accessible locations for future injections. Junction boxes, nail packers, or simply continuing fiber reinforced vent ends to the outside of the concrete can be utilized (see figure 3).
3. When using junction boxes, continue fiber reinforced vent ends roughly 4" into the junction box. Tie vent ends together inside the junction box using cable ties or tie wire to secure during concrete placement.

SikaFuko® VT 1
- 6mm ID Hose
- 3mm Injection Ports on 20mm centers
- 13.5mm OD Hose

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- 10mm ID Hose
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- 24mm OD Hose
SikaFuko® ECO 1
Injection Hose System for Single Injections

SikaFuko® ECO 1 (formerly Durject) is an economical injection hose for planned sealing of construction joints. SikaFuko® ECO 1 enables a controlled injection of the construction joint for a reliable waterproofing system.

SikaFuko® ECO 1 is designed to deliver resin and microfine cements through a spiral cut injection channel and perforated foam jacket. Unlike SikaFuko® VT, it is not for applications that may require multiple injections. Installation follows a procedure similar to that used for SikaFuko® VT described on the preceding page. Contact for a Sika Greenstreak Engineer for specific details.

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Injection Materials for use with SikaFuko® Injection Hose Systems

Sika® Inject 215

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SikaFuko® Injection Hose Systems

SikaFuko® VT is a specially designed PVC Injection Hose System which is installed in concrete construction joints to waterproof and seal any cracks or voids adjacent to the joint. The SikaFuko® VT System seals joints watertight and offers a complete maintenance program if leakage appears in the future.

When Sika® Acrylate Injection Resins, Portland Cement, Microfine Cement, or other approved injection resins are selected, the SikaFuko® VT System can be used for multiple re-injections — a significant advantage over any other hose system available. SikaFuko® VT Re-Injectable Hose System is a logical step forward in improving waterstop technology. Utilizing this state-of-the-art injection system results in “zero leak tolerance.” Easy to install and reasonably priced — SikaFuko® VT simplifies the job and ensures watertight joints. Additionally, SikaFuko® ECO 1 (formerly Durject) is an economical, single-injection hose for planned sealing of construction joints (see back cover for more details).

Typical Applications for SikaFuko® Injection Hose Systems

- Tunnels
- Water/Waste Water Treatment Plants
- Lock and Dam Systems
- Reservoirs and Aqueducts
- Water Parks and Aquariums
- Power Plants
- Bridges
- Containment Structures and Tanks