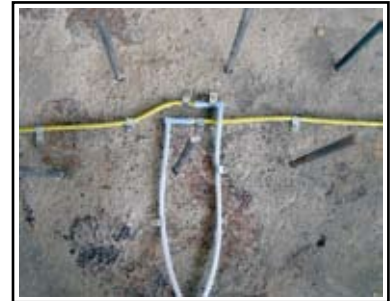


Infiltra Stop

Sealing system for post-injection of cold and construction joints in concrete.



• field of application

Sealing of cold and construction joints, pipe penetrations, joints between slurry walls and slabs through post-injection of the tube with De Neef injection resins.

• advantages

- Simple installation - complete pre-cut kit.
- Infiltra Stop can be adapted on site to the exact length of the construction joint (recommended maximum length is 6 metres).
- No special equipment required.
- Injection can be performed at any chosen time.
- When Infiltra Stop is injected the pressure of dispersion of the resin remains uniform over the full length of the tube.
- The system allows injection under relatively low pressure.
- There is no interruption of the building activities when Infiltra Stop is installed.
- No risk of damaging the concrete during installation or injection.
- Permanent seal after injection.
- No leak, no injection necessary.
- Form costs are greatly reduced, compared to PVC waterstops.
- The serrated surface prevents the tube from moving during the injection.
- The serrated surface and the construction of the injection tube result in a ratio "Contact surface / Effective surface" >1.

• description

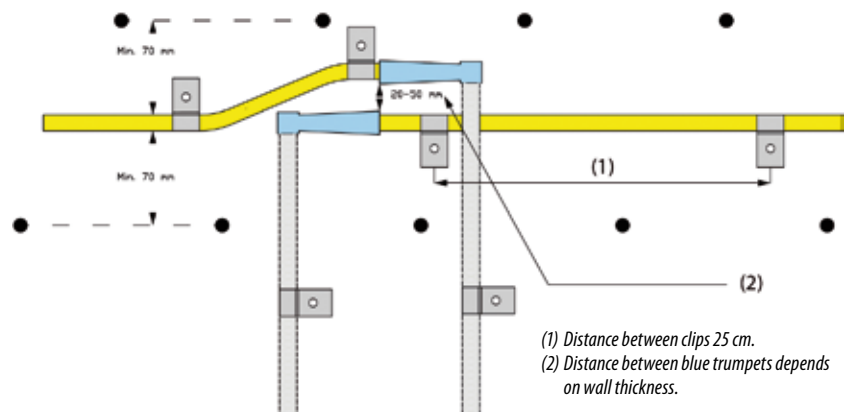
Infiltra Stop is a preventative injection tube for the permanent sealing of cold and construction joints in concrete, pipe penetrations and voids between slurry walls and slabs, etc. Where new and old concrete will join an injection tube is installed. When water is infiltrating into the joint, a De Neef injection grout is injected through the PVC end pieces, which protrude out of the concrete at easily accessible places. This way the joint is sealed. Preferably, the injection will be executed after curing and setting of the concrete. The leaking joints can thus be permanently sealed.

• application

1. Installation of Infiltra Stop

- The Infiltra Stop tubes will be installed onto the hardened concrete during formwork installation. In case of rough surfaces, the gap between Infiltra Stop and the surface should be filled with Swellseal Mastic.
- Infiltra Stop is cut to the required length (recommended maximum length is 6 metres).

- The cut ends need to be smoothed with a twisting motion.
- The blue trumpets are slid over the yellow Infiltra Stop tube and screwed down to the stop mark inside the trumpet.
- The reinforced PVC tubes are cut to length and connected to the blue trumpet. The PVC tube's open ends are sealed with a plastic cap.
- The Infiltra Stop tube is attached to the concrete with the anchoring clips between the inner and outer reinforcing bars. Observe the correct positioning of the blue trumpet overlap to avoid cross-contamination of lengths of Infiltra Stop.
- Nail the anchoring clips down with steel nails every 25 cm. The Infiltra Stop tube can also be attached directly to the reinforcement bars with steel wire.
- The PVC end pieces need to protrude out of the concrete at places, which are easily visible and accessible after removal of the formwork at the inside of the construction and to allow continuous injection. The ports can be attached to the formwork with the special Infiltra Stop formholders. These can be either nailed to the formwork or attached to the reinforcement bars with steel wire.
- For an efficient installation, it is advisable at the time of the concrete pour, to level out a strip of 2 to 3 cm with a trowel. Infiltra Stop must be installed in direct contact with the joint over its full length.



2. Injection

- Before commencing the injection, consult the Technical Data Sheets and MSDS in order to be familiar with the materials at hand.
- Check the joint to be treated in order to find the reinforced PVC injection ports and ascertain whether they are readily accessible or not. When a port is not readily accessible, take corrective action before starting the injection.
- Infiltra Stop is preferably injected using Ha Flex LV AF for optimum results.
- Prepare the resin with the predetermined amount of catalyst.
- Shake HA Flex Cat AF well before use.
- Never prepare more resin than can be injected within 4 hours after mixing Ha Flex Cat AF.
- No reaction with the resin will occur until the resin comes into contact with water. Protect the resin from water, since this will trigger a reaction in the container used and might cause the resin to harden or foam prematurely within the injection equipment.
- It is highly recommended to use separate pumps for the water and the resin injection to prevent contamination and blockages. The pumps should be thoroughly primed with Washing Agent Eco to lubricate and dry the system before injection.
- We recommend the use of pneumatically or electrically driven 1-component pumps.

- Insert an plastic packer in the port of the first length of Infiltra Stop tube to be injected. Make sure the packer is tightly screwed into the reinforced PVC tubing. In case of a preventative injection, first flush the Infiltra Stop tube with water to prime the system. HA Flex LV AF needs water to be activated.
- Connect the pump hose to the packer and start to slowly pump the resin. Water will be displaced and exit the Infiltra Stop tube through the second reinforced PVC port. When no water is exiting the port, the tube might be blocked. Investigate and take remedial action. When the tube is blocked, the standard method of drilling and injecting will need to be used for waterproofing the joint. After all the water is displaced out of the Infiltra Stop tube, foaming resin will appear.
- Close the second port by inserting a plastic packer.
- Slowly increase pressure to fill up the joint and densify the foam. When final pressure has been reached, stop pumping, disconnect the pump hose and move on to the next length of Infiltra Stop tube. Do not remove the packers from the ports until HA Flex LV AF has fully cured.
- When the injection is finished, clean all tools and equipment which have been in contact with the resin with HA Washing Agent Eco. This should be done within 30 minutes. Never leave the pump filled with resin overnight or for periods beyond 1 shift. Do not use solvents or other cleaning products since they give less positive results and can create hazardous situations. Disposal of the products will be done according to local legislation.
- Refer to Material Safety Data Sheet for general recommendations. In case of spills and accidents, refer to the Material Safety Data Sheet of the products or when in doubt contact the De Neef Division responsible for your territory. Always wear appropriate protective gear for the job at hand according to local standards and prescriptions. We recommend that gloves and protective goggles are worn when handling chemical products. See MSDS for further recommendations.

Reactivity Ha Flex LV AF

Reactivity	% Ha Flex Cat AF	Start foaming	End foaming	Expansion
At 5°C	1	Approx. 3'30"	Approx. 17'00"	Approx. 12V
	2	Approx. 2'15"	Approx. 8'30"	Approx 14V
	5	Approx. 55"	Approx. 4'00"	Approx 16V
At 15°C	1	Approx. 2'10"	Approx. 10'50"	Approx 14V
	2	Approx. 1'25"	Approx. 7'00"	Approx 16V
	5	Approx. 40"	Approx. 3'05"	Approx 16V
At 25°C	1	Approx. 1'30"	Approx. 9'00"	Approx 14V
	2	Approx. 1'05"	Approx. 5'35"	Approx 16V
	5	Approx. 35"	Approx. 2'10"	Approx 17V
At 30°C	1	Approx. 1'05"	Approx. 7'30"	Approx 14V
	2	Approx. 45"	Approx. 4'40"	Approx 16V
	5	Approx. 25"	Approx. 1'45"	Approx 17V
At 35°C	1	Approx. 55"	Approx. 6'45"	Approx 15V
	2	Approx. 40"	Approx. 4'00"	Approx 17V
	5	Approx. 20"	Approx. 1'25"	Approx 18V

• technical data/properties

Property	Value
Outside diameter	12 mm
Inside diameter	8 mm
Maximum length	6 metres
Weight	71 g/m
Operating temperature	Up to 70°C
Steel wire tensile strength	Approx. 1800 N/mm ²
Filter pore diameter	35 µm

• **appearance**

Yellow spiral shaped injection tube, porous over its entire length, with an outside diameter of 12 mm.

(1) A reinforced spiral of steel wire

on the inside prevents collapse of the tube and hence blockage of the injection channel.

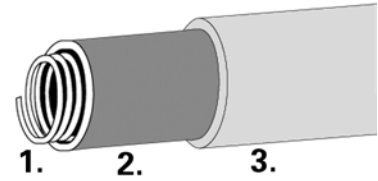
(2) A non-woven filtrating mem-brane

filters even the smallest cement particles during the pour. It allows free flow of the resin during injection of the tube.

(3) Outer synthetic membrane

protects the inner membrane. The injection pressure makes the fibres of the outer membrane act like a valve to allow the injection grout to penetrate well into the voids and honeycombs in the concrete, throughout the full length of the tube.

Infiltra Stop is also highly suitable for the injection with Ha Flex LV AF.



• **consumption**

The necessary quantities need to be estimated by the engineer or applicator and depend on the length and design of the various joints.

Consumption of the injection resins depends on the void and joint opening which needs to be filled.

Minimum fill volume of the correctly installed injection tube: 250 g/m.

• **packaging**

Infiltra Stop is supplied in kits (non-assembled) to allow the system to be adapted to the required length on site:

Length Infiltra Stop : 5 x 6 m lengths.

: Recommended maximum length of Infiltra Stop is 6 metres.

Reinforced PVC-tube° : 2,50 metres + caps°.

Blue trumpets° : 10 pieces.

Anchoring clips° : 100 pieces.

(° can also be ordered separately)

1 Pallet = 40 x 30 metres = 1.200 metres.

Weight

• 4,18 kg/kit of 30 metres gross.

• (3,8 kg/kit of 30 metres net).

• **storage**

Unlimited in a dry place.

• **accessories**

To be ordered separately

• Formholder.

• Swellseal Mastic.

• HA Flex LV AF and HA Flex Cat AF.

• IP 1C-Manual hand pump.

• IP 1C-Compact electric airless diaphragm pump.

• Packers.

(Please consult the relevant data sheet)

• **health & safety**

For full information consult the relevant Material Safety Data Sheet.