ECONOMY LINE
an.kox
sealing products

Injection-hose

Injection hose system

TECHNICAL DATASHEET

Status 17.06.2020

Item no. A04460120
A04460040

PROPERTIES

Injection-hose is a newly developed, certified, one-piece injection hose. It is made from a specially formulated plastic which features excellent usability characteristics. Following concreting, it functions as a channel for transporting the grouting material along the joint. This hose is equipped with discharge ports, equally spaced over its entire circumference. This gives the injection hose optimal grouting characteristics.

The thickness of the walls of the injection hose relate specifically to the characteristics of the grout. This ensures that during the injection process the micro-ports open at 1.0 bar allowing the grouting material to then perform its task of penetrating all areas of the construction joint that require grouting. As a result, a secure and long lasting sealing of the construction joint is achieved.

The micro-ports prevent reliably any infiltration of concrete silt and foreign bodies back into the injection hose itself. After successful injection, the reduction in pressure on the outer coating of the hose which was compressed causes the micro-ports to close. By using ultra-fine cements, an optimization of the injection can be achieved. The innovative design of the hose does not allow the duct to be blocked even if the hose is strongly bend.

APPLICATION

By injecting **Injection-hose** hollow spaces can be filled with cementitious grouting after the poured concrete has cured. By injecting either PUR foam resin, PUR injection resin or Polymer gel matrix any construction joint can effectively be waterproofed.

TECHNICAL DATA

Color	red
External diameter	13,0mm round shape
Internal diameter	7,0mm
Micro-port dimensions	length: appr. 5,0mm spacing interval: appr. 10,0mm
Material composition	PVC-P special type for extrusion, conforms with ROHS, contains no substance of content according to SVHC-list, Phthalat-free production
Injection grouting	PUR injection resin, PUR foam resin, Polymer gel matrix, Epoxy resin, Ultrafine cement

PACKAGING & STORAGE

120,0m-coil pallet: 3.360m

Injection-hose has to be stored in a dry place and protected against mechanical damage. **Injection-hose** has to be stored in a dry place and protected against mechanical damage.

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INSTALLATION

The concrete surface must be even, free of loose particles and sharp-edged displacements. Before installing **Injection-hose**, ice coverings, standing water and cement sludge have to be removed.

The regular hose length is 8–12 m. Numerous injection cycles are possible with Ultrafine cement, Polymer gel matrix and a singular injection cycle with PUR injection resin. **Injection-hose** must lie flat on the surface of the first concrete section. The injection hose is secured with **Stecki** or clamps. The distance between the fixing points should be 10-15 cm. This should be smaller if circumstances require.

Injection-hose is in its ideal position when centrally aligned. The distance of the **Injection-hose** hose to the outer edge of the joint must be at least 10cm. At hose section joints, the two hoses are to overlap each other by 15cm and lie parallel one to another at a distance of 3-5 cm. **Varioclix®** (patented injection hose point) has to be installed in such a way as to allow access at all times.

Injection:
Injection-hose can be injected after 28 days at earliest. Visible flaws along the construction joint are to be plugged with quick-dry cement before injecting.

Injection can be carried out in two ways:

- Injection using an injector hose (reinforced PVC hose)
- Injection using an.kox **Varioclix®**

1.) Check the continuity of the hose by flushing with water or air.
2.) The hose is injected via the injection connector (PVC hose or an.kox **Varioclix®**) until traces of the injected material are discharged from the open end. This open end is closed with an injection nipple as soon as the injected material starts to flow freely (without air pockets). The flow and extent of the injection material in the concrete joint can be monitored during the injection process by means of the injection pump's pressure gauge.
3.) The injection process continues until constant pressure has been reached. Constant pressure indicates that the concrete joint can take no more grouting material, thus signaling the end of the process.
4.) Injection material in the injection hose is simply flushed out by means of a water pump (flushing pump from a 2-C pump unit). This operation requires hardly any pressure. The injection hose is then once again ready for additional injections.
5.) Before injecting with Ultrafine cement (a mineral grout), **Injection-hose** is flushed with water.
6.) If **Injection-hose** is injected with EP resin, PUR foam resin or PUR resin, both flushing and reinjecting the hose is not possible.

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ACCESSORIES

Item no. A04460040	Injection-hose Set 40 m incl. all accessories	1 Set = 40 m
Item no. S04900005	Stecki	200 pieces
Item no. S04700000	Varioclix®	30 pieces
Item no. S04910013	Clamp an.kox 13 mm	100 pieces
Item no. S04900001	Hose connector	100 pieces
Item no. S04810050	PVC-hose blue L = 50 m	50 m
Item no. S04820050	PVC-hose white L = 50 m	50 m

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