

Injection hose SX[®] 1

Injection hose system

TECHNICAL DATASHEET

Status 30.06.2020

Item no.: S04440120

PROPERTIES

The injection hose system **SX[®] 1** is a round, robust, certified, one piece injection hose. It is made from a specially formulated plastic, which features excellent usability characteristics and ensure an entire embedment in the joint. Following concreting, it functions as a channel for transporting the grouting material along the joint. Its assured functioning is a result of its sound construction.

APPLICATION

The **SX[®] 1** injection hose is equipped with discharge ports, equally spaced over its entire circumference. This gives the injection hose optimum 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 bar allowing the injected 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 causes the micro-ports to close.

By injecting either PUR foam resin, PUR injection resin or Polymer gel matrix any construction joint can effectively be waterproofed.

TECHNICAL DATA

| | |
|-----------------------|--|
| Profile: | round with 4 semi-circular grooves |
| Colour: | light blue |
| Material composition: | PVC-P special type for extrusion, conforms with ROHS, contains no substance of content according to SVHC-list, Phthalatfree production |
| Diameter: | external: 13 mm Internal: 6.0 mm |
| Metre markings at: | 1m intervals |
| Lengths micro-ports: | approx. 5 mm spacing intervals: approx. 15 mm |

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PACKAGING & STORAGE

Dimension

coil: 120 m

pallet: 3.360 m

SX[®] 1 has to be stored in a dry place and protected against mechanical damage.

INSTALLATION

The concrete surface must be even, free of loose particles and sharp-edged displacements. Before installing the injection hose system **SX[®] 1** ice coverings, standing water and cement sludge have to be removed. The regular hose length is 8–12 m.

SX[®] 1 must lie flat on the surface of the first concrete section. The injection hose is secured with clamps or a fixing mesh. The distance between the clamps or fixing points should be 10-15 cm. This should be smaller if circumstances require. **SX[®] 1** is in its ideal position when centrally aligned. The distance of the **SX[®] 1** injection 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. The an.kox **Varioclix[®]** (patented injection hose point) has to be installed in such a way as to allow access at all times.

Injection:

SX[®] 1 is injected after 28 days at the earliest.

Visible flaws along the construction joint are to be plugged with quick-dry cement before injecting.

Injection can be carried out in a number of ways:

- ⇒ Injection using an injector hose (reinforced PVC hose)
- ⇒ Injection using the 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).
3. 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.
4. The injection process continues until constant pressure has been reached. Constant pressure indicates that the concrete joint can take no more grouting material, thus signalling the end of the process.
5. 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.
6. Before injecting with ultra-fine cement (a mineral grout), **SX[®] 1** is flushed with water.
7. If **SX[®] 1** 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

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|--------------------|---|
| Item no. S04900001 | hose connector |
| Item no. S04820050 | PVC hose 50 m – roll |
| Item no. S04900004 | hose clip |
| Item no. S04958055 | grouting nipple M8/ 55 mm conical-headed nipple |
| Item no. S04700000 | Varioclix [®] |
| Item no. S04701005 | Varioclix [®] with metal strip |
| Item no. S04925100 | X1 fixing mesh for injection hose L = 100 cm |
| Item no. S04910013 | an.kox clamp 13 mm |

Note:

The information on this data sheet is based on our experience and given to the best of our knowledge, but is not legally binding. Recommendations, which are at variance with those stated in this data sheet, are only binding for us, when confirmed in writing. The manufacturer is not responsible for damages resulting from the misuse or incorrect storage of the product. For the accuracy of this information we are liable within the scope of our delivery and service conditions. Creation date: 06/2020