

WaterproofX® 1000

Injection hose system with oversize

TECHNICAL DATASHEET

Status 13.03.2024

Item no.: S04310060

PROPERTIES

WaterproofX® 1000 is a newly developed, one-piece injection hose with a big core diameter. 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. Due to the extraordinary geometrical shape this hose is perfect for technically challenging injections with overlengths and various groutings.

The hose is equipped with discharge ports, equally spaced over its entire circumference. This gives the injection hose optimum grouting characteristics.

An optimization of the core diameter by means of an enlargement results in an improvement when injecting all kinds of groutings in particular cementitious based groutings.

APPLICATION

WaterproofX® 1000 can be applied for all kinds of technically challenging injections with various groutings once the concrete has cured.

TECHNICAL DATA

Profile:	round / hexagonal
Colour:	blue transparent
Material composition:	PVC-P special type for extrusion, conforms with ROHS, contains no substance of content according to SVHC-list, Phthalatfree production
Diameter:	external: 18 mm Internal: 10 mm
Metre markings at:	1m intervals
Lengths micro-ports:	approx. 5 mm spacing intervals: approx. 10 mm

PACKAGING & STORAGE

Dimension

coil: 60 m pallet: 28 rolls per 60 m = 1.680 m

WaterproofX® 1000 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 **WaterproofX® 1000** ice coverings, standing water and cement sludge have to be removed.

The regular hose length is 8–12 m.

WaterproofX® 1000 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.

WaterproofX® 1000 is in its ideal position when centrally aligned. The distance of the **WaterproofX® 1000** 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.

Injection:

WaterproofX® 1000 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)

- 1.) Check the continuity of the hose by flushing with water or air.
- 2.) The hose is injected via the injection connector (PVC hose) 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. Flushing and reinjecting **WaterproofX® 1000** is possible when injecting with Ultrafine cement respectively Polymer gel matrix.
- 6.) Before injecting with ultra-fine cement (a mineral grout), **WaterproofX® 1000** is flushed with water.
- 7.) If **WaterproofX® 1000** 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. S04040050	WaterproofX® 1000 PA connector hose white
Item no. S04825001	PVC hose white 10 x 3 mm
Item no. S04900012	Hose clamp FSI 12 – 22 mm
Item no. S04910018	Clamp 18 mm
Item no. S05054003	Cement-packer set incl. sliding coupler
Item no. S05054004	Resin injection packer incl. high pressure cone head nipple

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: 03/2024