

WaterproofX[®] 100

Injection hose system

Properties:

WaterproofX[®] 100 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.

Its assured functioning is a result of its sound construction. 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 bore diameter by means of an enlargement results in an improvement when injecting abrasive grouting materials such as ultra fine cements. The innovative design of the hose does not allow the duct to be blocked even if the hose is strongly bent.

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 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.

Application:

By injecting WaterproofX[®] 100 with a suitable grouting material construction joints can be sealed up reliably. Depending on the grouting material the injection hose is reinjectable. The injection hose must be installed on the construction joint with a full bearing.

Injection material:

PUR foam resin, PUR resin, Acrylate gel, EP resin, Ultra-fine cement

Technical features:

Profile:	star-shaped
Colour:	blue
External diameter:	13mm
Internal diameter:	8,3mm
Metre markings at:	1m intervals
Lengths micro-ports:	approx. 3mm
Spacing intervals:	approx. 10mm



Packaging:

Coil: 120 m

Pallet: 3.360m

Storage:

WaterproofX® 100 be stored in a dry place and protected against mechanical damage.

Installation:

The regular hose length is 8-12m. Overlength of up to 30 m can be multiple injectable with Polymer-gelmatrix and singular injectable with PUR-resin. If WaterproofX® 100 is to be injected with ultra-fine cement (Micropress) the hose length now can be 10 m and more.

WaterproofX® 100 must lie flat on the surface of the concrete section. The injection hose is secured with brackets or a fixing mesh. The distance between the brackets or fixing points should be 10 - 15 cm. This should be smaller if circumstances require. WaterproofX® 100 is in its ideal position when centrally aligned. The distance of the WaterproofX® 100 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 to one another at a distance of 3-5cm.

The Varioclix® (injection point) has to be installed in such a way as to allow access at all times.

Injection:

WaterproofX® 100 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 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 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), WaterproofX® 100 is flushed with water.
7. If WaterproofX® 100 is injected with EP resin, PUR foam resin or PUR resin, both flushing and re-injecting the hose is not possible.



Accessories:

Art.-Nr. 10101	Hose connector
Art.-Nr. 10102	PVC-hose 50 m - roll
Art.-Nr. 10098	PVC-hose 50 cm - pieces
Art.-Nr. 10103	Sealing plug
Art.-Nr. 10112	Hose clip
Art.-Nr. 10115	Grouting nipple M8
Art.-Nr. 10117	Grouting nipple M8/ 55 mm conical nipple
Art.-Nr. 10118	Grouting nipple M8/ 55 mm flat head nipple
Art.-Nr. 10300	Varioclix®
Art.-Nr. 10302	Varioclix® with metal strip
Art.-Nr. 10308	Varioclix® with floor mounting
Art.-Nr. 10119	Fixing mesh for injection hoses
Art.-Nr. 10106	Clamp
Art.-Nr. 22014	Mounting clip X1

Note:

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