



AquaPressin® SET

Injection hose for sealing construction joints in concrete structures with complete with accessories

- perforated single-layer hose
- easy spread of the injection agent
- the perforation geometry prevents the penetration of cement laitance into the hose
- injection possible after many years after application
- simple and quick assembly
- does not twist
- economical and safe solution



Characteristic

AquaPressin is a single-layer perforated hose made of plastic (PVC) resistant to mechanical damage. The optimal cross-section of the transport channel allows easy spread of the injection agent. Slightly conical cuts made from the inside to the outside (Fig. 1) allow the injection to flow smoothly to the outside (already at a pressure of about 0.5 bar at the gap) and prevent water or cement (cement laitance) from entering the hose during concreting. The smooth surface of the hose reduces internal friction of the injected agent and prevents undesirable adhesion of concrete to the hose on the outside. The circular cross section of the hose prevents it from twisting during installation. The injection is possible even many years after the laying and concreting.



Fig. 1 cross-section of the transport channel

Intended use

The injection hose is used to seal construction joints in concrete structures below ground level, which are exposed to permanent or periodic action of ground, surface, rainwater or sea water. A single injection is recommended when using polyurethane and epoxy resins. Multiple injection is possible when using microcement grouts or acrylic gels (only if the acrylics are not corrosive).

Preparation of the substrate

The length of the hose sections should be selected according to the design and technical conditions. It is recommended to install the hose in lengths of up to 10 m. For longer sections, the pressure necessary to unblock all openings along the entire length may be too high. To suitably cut lengths of injection hose, fix the auxiliary hose at the inlet and outlet with plastic fittings. This connection should be protected with a heat-shrinkable sleeve. Attach plugs to the ends of the auxiliary hoses to protect the outlet openings from the ingress of laitance, water or other contaminants.

Application

Install the hose on the bonded concrete surface in the middle of the working seam. In particularly thick construction elements (over 60 cm), the hose should be fastened max. at a distance of 25 cm from the water side (but at least 10 cm from the outer edge of the concrete).

The hose should fully touch the ground along its entire length. It should be fastened with plastic (or metal) holders hammered in at a distance of approx. 20 cm. The handles are pressed (or hammered) into holes with a diameter of 6 mm.

Successive sections of the hose should overlap. The length of the plant is approximately 10 cm. The distance between the hoses in the plant should be min. 5 cm. The bend radius of the hose is 5 cm - so pay special attention when laying the hose on corners and bends of a smaller radius to prevent channel obstruction.

The connection of the injection hose with the auxiliary hose should be fixed in the concrete (with a cover of at least 5 cm). The connection of the hose to the outside of the concrete should be made with a non-perforated auxiliary hose in order to avoid undesirable flow of injection agent preventing the achievement of the appropriate working pressure.

The injection hose can be injected through packers (injection nipples) attached to the auxiliary hose.

The ends of the auxiliary hose can be loosely led out, fixed in boxes or with the use of formwork injectors so that they are easily accessible in the future for injection

Packages

Kits available:

W50

- 50 m injection hose
- 2,5 m transparent PVC auxiliary hose (inlet)
- 2,5 m red PVC auxiliary hose (outlet)
- 10 pcs of connectors \varnothing 6mm
- 1 m of heat shrinkable sleeve
- 10 pcs of sealing plugs
- 200 pcs of handles

W200

- 200 m of injection hose
- 10 m transparent PVC auxiliary hose (inlet)
- 10 m red PVC auxiliary hose (outlet)
- 40 pcs of connectors \varnothing 6 mm
- 4 m of heat shrinkable sleeve
- 40 pcs of sealing plugs
- 800 pcs of handles

The composition of the kit W50/W200



INJECTION HOSE



AUXILIARY HOSE

\varnothing 11/6 mm
transparent - inlet, red - outlet



HEAT SHRINKABLE SLEEVE

\varnothing 12,6 mm, after shrinkage 6,4 mm



HOSE SEALING PLUG



CONNECTOR BETWEEN INJECTION HOSE
AND AUXILIARY HOSE



HANDLE

dimensions of the hole for the handle \varnothing 6 mm,
depth 40 mm

Assembly instructions are included with each package.
The full range of accessories is available on the manufacturer's website or after prior contact with a sales advisor.

Recommendations

When choosing an injection agent, it is recommended to contact an Aqua Tech representative.

The injection should be carried out after achieving the appropriate strength of the concrete. During concreting, special care should be taken that the discharge ends are not clogged or damaged, and that the injection hose should not be too close to the edge of the concrete.

The injection should be carried out in accordance with the construction practice. The effectiveness of subsequent injections depends on the correct and well-planned arrangement of the injection hoses, fasteners and delivery tips.

The exact location and route of the injection hoses should be carefully and precisely described in the form of as-built drawings or documentation photos. All given technical data are based on trials and tests carried out in specialized laboratories. Practical measurement results may differ from those given due to circumstances beyond the control of the manufacturer.

Shelf life and storage

Up to 5 years in original packaging, provided that it is stored in accordance with the guidelines.

Protect the product against frost and constant sunlight.

ESSENTIAL CHARACTERISTIC	AquaPressin SET
material	PCV, softener DEHP
weight	about 0,11 kg/m
colour	blue
inside \varnothing	6 mm
outside \varnothing	11 mm
max. section length	10 m
cut / slot length	about 5 mm
cuts arrangement	every 12-14 mm in the cross-section axis, (24 holes for every 10 cm of hose length)

The data contained in this technical data sheet are based on our experience and research, and constitute general information about the product and recommendations for application under standard conditions. The manufacturer guarantees the quality of the product, but has no influence on the conditions and manner of its use. In case of doubt, please contact us or make your own tests. With the appearance of this technical data sheet, the previous ones will no longer be valid.

8KTEENGAQU_30111042023