

BluSeal Injection Hose VS

Re-Injectable Hose System

Material Description

BluSeal Injection Hose VS is a re-injectable hose waterstop system for construction and cold joints in concrete.

BluSeal Injection Hose VS is a specially formulated PVC compound for installation within all types of concrete joints. The material is tough, flexible, resilient, chemically inert and is not affected by weathering, low temperatures, or constant immersion in water. It will withstand rough treatment during installation and is easy to install. The re-injectable hose is unaffected by alkalis, sewerage, most water solutions of organic chemicals, aliphatic hydrocarbons (fuel), mineral oils, acids and alcohols.

Characteristics and Benefits

- Fast easy installation procedures, even to complicated design detail.
- Possible to retro-fit when new construction is built against existing structures
- The installed system assures a watertight structure.
- Proven and predictable performance.
- System enables retro-injection, to stop leaks caused subsequently by settlement or structural movement at the construction joint.
- Completely maintenance free.

Areas of Application

BluSeal Injection Hose VS is designed to post inject construction joints, minimising the need to drill and install packers. The main hose is a blue flexible PVC hose which comprises a solid core and lateral openings covered by neoprene strips, all banded by an open webbed nylon mesh.

Project examples: Tunnels, underground structures, water reservoirs/tanks, canals, dams, sewage treatment plants, liquid storage vessels, any sub base concrete construction, water excluding or retaining structures.

Product Data

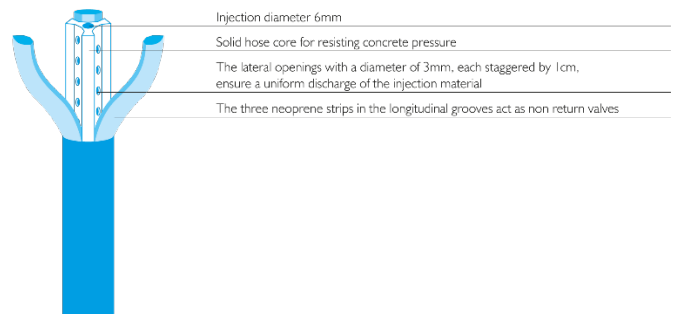
Dimensions

Outside diameter 19mm, longitudinal internal injection hole diameter 6mm, discharge openings diameter 3mm

Recommended Injection Resins

MasterFill PR 1400, MasterFill PR 1450, MasterFill ER 1311, microfine cements, acrylics

Components of the Main Hose



Installation

Preparatory Work

1. All re-injectable hoses should be protected from oil, dirt, concrete spatter and damage and should be left clean to receive concrete. The surface where the re-injectable hose will be installed has to be smooth.
2. The surface generated by an internal vibrator while compacting the concrete will usually be suitable.

Method

1. **BluSeal Injection Hose VS** consists of the injection hose itself and the vent ends. These are specially fabricated PVC hoses to withstand injection pressure, in green and transparent colours. The vent ends allow the fixing of injection equipment at a later stage and generally project 20cm out of the concrete surface.

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2. After pouring the concrete, only the vent ends are visible. The different colours make the identification of the start and end of the hose after concreting. The injection hose and vent ends must be encased in at least 5cm of concrete.
3. **BluSeal Injection Hose VS** is installed in lengths up to a maximum length of 12m. For up to 600mm wall thickness the hose should be installed at the centre of the wall thickness. The hose is clamped into position with clips spaced about 200 - 250mm apart. **BluSeal Injection Hose VS** must not be fastened to the reinforcement bars in the wall.
4. It is essential that there is a direct contact between **BluSeal Injection Hose VS** and the concrete. If aggregate or debris lie on the concrete, these must be removed, to prevent floating of the hose in the freshly poured concrete.
5. **BluSeal Injection Hose VS** is re-injectable when using acrylics and microfine cement. **BluSeal Injection Hose VS** is single use when used with polyurethanes and epoxies.

Packaging

Two boxes comprising the following:

Box 1 - 100m blue re-injectable hose

Box 2 - 20m green vent hose, 20m transparent vent hose, 4m shrink on sleeve,

40 connectors, 80 closure plugs, 500 anchor clips

Storage & Shelf Life

Store in original packaging under cover out of direct sunlight and in dry condition. Shelf life 24 months.

Guidelines

1. Installation, injection, reinjection, and selection of materials should be entrusted to an experienced installer.
2. The injecting of **BluSeal Injection Hose VS** may be carried out at any time either before switching off the dewatering as a precautionary measure or afterwards if leaks are noticed. The hose may be injected with water under pressure to test the integrity of the joint.
3. Injection always starts at one end adopting the following procedure:
 - Fill the hose with injection material by means of an injection pump until it flows out at the other end.
 - Plug that end with the end cap.
 - Pressurise the hose.
4. Continue to inject until the moment that no material flows into the joint (there is no or only slight pressure drop at the gauge); resin is seen flowing out of the joint or a predetermined quantity has been injected. Sealing is achieved by moderate pressure and a longer injection time, as opposed to high pressure over a brief injection period.
 - If required the same procedure may be pressure distribution over the whole length.
 - Within the gel time, pressurise **BluSeal Injection Hose VS** again briefly.

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Disclaimer

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