

Supercast Predimax Injection Hose*



constructive solutions

Injection hose for protection against potential and active leaks in construction and cold joints in concrete

Uses

Supercast Predimax Injection system has been designed to prevent passage of water through concrete joints

- Construction and cold joints
- Water excluding structures : e.g subways and tunnels
- Water retaining structures, e.g. canals and reservoirs
- Sewage treatment plants
- Below Ground concrete construction, e.g around pile heads & basements.

Advantages

- Economic - Reinjection option prevents leaks caused by settlement or structural movement
- Non destructive - No drilling or damage to the concrete
- Ease of use - Simple installation even at complicated details.
- Proven and predictable performance
- Maintenance free system
- Verifiable - testing of joints for watertightness before installation of membrane or back filling
- Smooth surface avoids bonding between injection hose and concrete
- Suitable for operation under high or low injection pressure

Description

Supercast Predimax Injection Hose comprises of a double-walled, patented (European & American) PVC hose specially formulated to be durable, robust and fully resistant to continuous immersion in ground water, saline, sewage, alkalis, acids, petrol, diesel and alcohol. The hose has exist openings (slots) for the pressure-fed injection material. The openings of the inside hose and those of the outside hose are staggered with respect of each other to prevent cement paste from entering the injection hose during concrete placement.

Specification

Where shown on the contract documents, the reinjectable injection hose shall be made of a smooth finished, double-walled PVC based hose with staggered openings.

The reinjectable injection hose system shall allow injection of PU and epoxy resins, acrylate gels and cement suspensions.

Typical Properties

	Supercast Predimax No.11	Supercast Predimax No.19
Material	PVC	PVC
Internal dia*	6mm	11mm
External dia*	11mm	19mm
Injection opening*	6mm	8mm
Colour	Green	Green
Discharge opening* (outerhose)	5mm	5mm
Slots, inner hose*	every 20mm, rotated by 90°	
Typical uses	General purpose	Tunnels or large voids in concrete
Typical injection length	10-12m	12-15m
Injection Material	All resin, fine and microfine cement	All, including cement

* subject to standard manufacturing

Instructions for use

Installation, injections, reinjection and selection of materials should be conducted by a Fosroc Approved Applicator.

Before installing the injection hose, ensure that the correct type of injection hose suitable for the project including all the required parts and equipment has been provided for, as per Fosroc recommendations.

Surface Preparation

The installation surface shall be trowel finished, sound, clean and free from contamination.

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Assembly

The Supercast Predimax Injection hose systems consists of a suitable length of hose plus inlet and outlet vents (See Properties). These vents allow for injection and each vent is of a different colour (White/Red) for ease of identification. The length of these vents are between 400-700mm long and will be identified as per project requirements. The inlet and outlet vents are normally housed in a socket box or connected by formwork catchers. These boxes or catchers shall be placed in an accessible area to allow ease of injection.

Overlapping of injection hose length shall be approximately 100-150mm with subsequent hoses placed between 50-80mm of each other.

Supercast predimax injection Hose shall be placed in the middle of the wall. Where walls are wider than 600mm, the hose shall be placed at a maximum 250mm from the water side. In all cases ensure that the hoses are embedded at a minimum distance of 50mm in concrete.

Fixing

Fix the injection and vent hoses to the substrate with hose clips and accessories as supplied by Fosroc. Fixing shall be at 200-250mm centre to centre, to ensure that the hoses do not float in the fresh concrete during casting process.

Use sealing caps at the end of vent hoses to ensure that the concrete does not penetrate into the hose.

Injection

When injection needs to be carried out, locate the red vent hose, remove the sealing cap and fix suitable injection nipples and accessories. It is imperative that the following steps are followed in the listed sequence.

- Fill the hose with injection material using injection pumps until flow is observed at the other end (white hose).
- Plug the end.
- Pressurise the Supercast Predimax Injection Hose

It is essential that the injection material penetrates the joint to ensure this. Maintain the pressure for 5mins after the material has been injected with no pressure loss observed.

Better results are achieved when using moderate pressure and a longer injection time, as opposed to a shorter injection period at elevated pressure.

It is recommended to repeat the same procedure from the other end to ensure even distribution along the length of the joint.

Limitations

- The concrete should be minimum 28 days old prior to commencing injection.

Supply

Supercast Predimax
Injection hose : 100m rolls

Technical support

Fosroc offers a comprehensive technical support service on water tight systems to clients, specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Precautions

Health and Safety

For further information, please consult relevant Material Safety Datasheets.

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