

Fosroc 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 exit openings (slots) for the pressure-fed injection material. The openings of the inside hose and the 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 Poly Urethane (Nitofill WS60[†] , Nitofill UR63[†]), epoxy resin (Nitofill EPLV[†]), acrylate gels(Carbocryl[†]) and cement suspensions(Nitofill CEM[†]) .

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 tolerances

Instructions for use

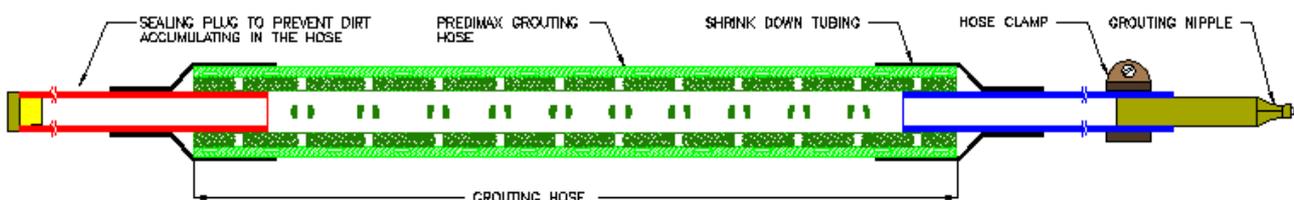
Installation, injections, reinjection and selection of materials should be conducted by a Fosroc Approved Applicator.

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

Supercast Predimax

Package 3 : 100m rolls including all accessories required

For the supply details of Nitofill WS60, Nitofill UR63, Nitofill EPLV, Carbocryl and Nitofill CEM refer to respective datasheets.

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 Data Sheets.

* Denotes the trademark of Fosroc International Limited

† See separate data sheet

Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. **All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.**



Al Gurg Fosroc LLC

Post Box 657, Dubai
United Arab Emirates

www.fosroc.com

Head Office

telephone: (+9714) 2039699

fax: (+9714) 2859649

email: agf@fosroc.com

Regional offices

Abu Dhabi, Al Gurg Fosroc
Bahrain, YBA Kanoo
Kuwait, Boodai
Oman, Al Amana
Qatar, Tadmur

telephone: 673 1779
telephone: 17738200
telephone: 4817618
telephone: 24815080
telephone: 4432365

fax: 673 1449
fax: 17732828
fax: 4832124
fax: 24817554
fax: 4419517

email: abudhabi@fosroc.com
email: bahrain@fosroc.com
email: kuwait@fosroc.com
email: oman@fosroc.com
email: qatar@fosroc.com

