Fosroc® Supercast® Predimax Injection Hose System

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 System consists 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 Clause

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 Predimax reinjectible hose system shall allow injection of Supercast Acrylate 100 (previously known as Carbocryl HV) and micro fine cement (by others). Please note that this material is Made To Order

Nitofil PU150 can be used, however this will render the hose single use only.

Typical Properties

	Supercast Predimax No. 11
Material :	PVC
Internal dia* :	6mm
External dia* :	11mm
Injection opening* :	6mm
Colour :	Green
Discharge opening* (outerhose) :	5mm
Slots, inner hose* :	every 20mm, rotated by 90^0
Typical uses :	General purpose
Typical Injection length :	10m to 12m
Injection Material :	All resin, fine and microfine cement

* subject to standard manufacturing tolerances

Instructions for Use

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.

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 to 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 to 150mm with subsequent hoses placed between 50 to 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 embeded 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 to 250mm centre to centre, to ensure that the hoses do not float in the fresh concrete during casting process.

Fosroc® Supercast® Predimax Injection Hose Sysytem

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 5 minutes 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 Kit: 100m hose + ancillary items based on fixing details provided within this TDS.

Material code: FC070403-UNIT

For the supply of Supercast Acrylate 100 (previously known as Carbocryl HV) refer to the respective data sheets.

Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

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