INSEAL 505

Re-injectable injection hose for protection against potential and active leaks

INSEAL 505 Injection Hose System is a re-injectable water stop hose made from a tough, resilient and chemically insert polymer. When sealing construction joints in concrete construction, groutable injection hose systems are used as an alternative or supplementary to classic waterstops or metal waterstops. Hose systems show their advantages not only in heavily reinforced structural elements or in complicated geometries: They can also serve as a supplement to conventional joint sealing systems as an additional "insurance policy", so to speak, for leaks in the joint that occur years later, which can otherwise only be sealed with much greater effort. The product withstands rough handling and is unaffected by constant immersion in water.



It is available in two grades:

R14/6: Internal diameter 6mm
External diameter 14mm

R25/10: Internal diameter 10mm
External diameter 25mm

Customized grades available upon request or according to project requirements /specification

Features

- Sealing and restoration in one stop
- Uniform resin distribution
- Withstands rough handling
- Multiple injection with microfine cement or acrylate gel
- Especially suitable for difficult construction joint run

Application field

INSEAL Injection Hose System has been specially developed to provide increased water-tight integrity for joints in concrete structures subject to hydrostatic pressure on one or both faces of the structure.

- Water Reservoirs /tanks
- Waste water structures
- Tunnels,dams and Canals
- Liquid storage tanks and basements

Properties

Properties	Test method	INSEAL 505
Construction		Re-Injectable PVC hoses comprising of a hollow core and lateral openings covered by neoprene strips and webbed nylon mesh
Out side diameter		24 mm
Internal injection hole diameter		10mm
Discharge opening		5mm
Spacing		300mm centre to centre
Tensile Strength	ASTM D638-14	≥100 Kg/cm²
Elongation at break	ASTM D638-14	≥280 %
Shore A Hardness	ASTM D2240-15	72
Ozone resistance	ASTM D 1149	No crack
Water absorption	ASTM D 570	0.22 %
Compression set	ISO 3400 PART-10 :1997	22.3 %

engineered to perform

Packaging

INSEAL 505 is supplied as one box comprising the following

100m Long Re-injectable hose
Accessories
20 m (10+10) Net Hose Pipe
20 No's Connection Nipple
20 No's End cape (Yellow)
02 Mtr Shrinkage Tube
300 No's Fixing Clamp
2 No's Pre Yellow Tape

Installation Guidelines

It is easier and faster to install the hose before the reinforcing steel is placed. Make sure that the surface to receive the hose is clean and free from all loose aggregate. Measure the required length of injection hose and cut the ends with a sharp knife so they are even. The length of R14/6 injection hose should not be more than 12 meters and 45 meters for the R25/10 injection hose. Measure and cut the vent hoses. Normally 500mm is sufficient, but they can be longer and directed inside concrete. Cut the ends of vent hoses so they are even. Pull the ends of the vent and injection hoses inside pressure connector so they are in contact and centered with each other in the middle point of the connector. Warm the connector up with a hot air blower so it shrinks and adheres around the hoses. Place Inseal Injection Hose System in the middle of the joint with at least 75mm distance from the edge of the wall. Start fixing the hose surround the connection piece and go forward to other end of the hose. Fix the injection hose to the concrete clips at 250mm centers. For the correct operation of the hose it is essential that it does not float in the fresh concrete during casting. At the connections overlap injection hoses by at least 50mm. Injection hoses must not be in direct contact with each other to prevent cross flow during injection. Place the connection pieces of vent and injection hoses at least 75mm from the edge of the wall to prevent pressure loss during injection. Place the vent hoses in to an junction box and attach it to the concrete form. Ensure the injection box is securely located and sealed to ensure no cement past enter the box. Individually number the injection hoses and record the hose runs to drawings. To ease the locating and injection of the hoses use two different colors of vent hose to identify the entry and exit points for the injection process. Mark the number of the injection hose and vent hoses.

Limitations :The concrete should be minimum 28 days old prior to commencing injection. Use only approved feeder hoses. Do not place the injection hoses in direct contact with each other.

Health and Safety: This product is for industrial use only by trained operatives. It is potentially hazardous if not used correctly. Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product. The MSDS can be obtained via our website www.organixbs.com

Authorized Technical Specialist : Please note only Organix Authorized Technical Specialists ("ATS") are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product. Visit www.organixbs.com for a full list of Organix ATS.

Datasheet Validity: Organix makes modifications to its product datasheets on a continuous basis. Please check the datasheet update section on www.organixbs.com to ensure you have the latest version.

Manufacturing standard: All products manufactured by Aggregate Industries are produced in accordance with ISO 9001 with factory compliance to ISO 14001

ORGANIX can customize the product to fulfill different project requirement. If you require more detail information, please feel free to contact us directly at support@organixbs.com We'll be pleased to provide our best assistance. ORGANIX commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution

ORGANIX BUILDING SYSTEM

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