

# Flexseal HI300

Re-injectable hose for protection against potential leaks in construction and cold joint in concrete



## DESCRIPTION

Flexseal HI300 is a re-injectable hose with integral valves specially formulated from PVC compound wrapped with neoprene strips acting as non-return valves and covered with PP braiding that strengthens the whole assembly.

Flexseal HI300 is a tough, flexible, and resilient material that withstands weathering, low temperatures, and constant immersion in water. It is specially designed to be installed in concrete construction joints as a precautionary measure to waterproof them and to seal any cracks or voids in the joint area to eliminate the possibilities of leakage in future.

Flexseal HI300 is suitable for many injection materials such as injection resins, micro-fine cement, or cement slurry to seal capillary cracks.

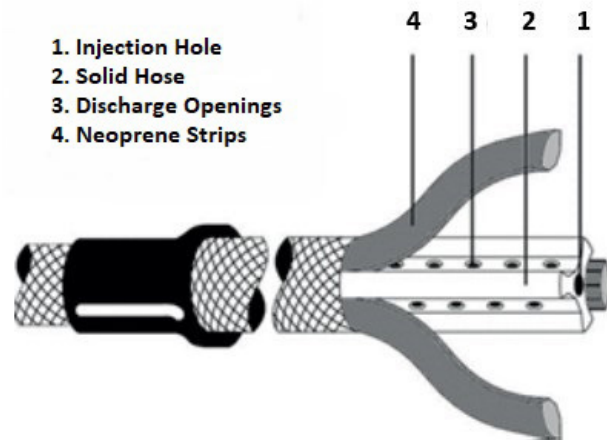
## APPLICATIONS

Flexseal HI300 injection system has been designed to prevent passage of water through concrete joints:

- » Construction and cold joints.
- » Watertight structures against water and salt water ingress.
- » Water excluding structures; e.g. subways, basements and tunnels.
- » Water retaining structures; e.g. canals, dams and reservoirs.
- » Sewage treatment plants.
- » Below ground concrete construction.

## 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.
- » Verifiable - testing of joints for water-tightness before installation of membrane or back filling.
- » Cost and time efficient, eliminates costly design, welding and installation of water bar.
- » Resilient braiding
- » Unaffected by alkalis, most water solutions of organic chemicals, aliphatic hydrocarbons (fuel), mineral oils, acids and alcohols.



## TECHNICAL PROPERTIES:

Material:	PVC hose	
Colour:	Various	
Roll length:	100 m	
Tensile strength: ASTM D412	≥ 11 MPa	
Elongation at break: ASTM D412	≥ 200 %	
Shore A hardness: ISO 868	85 ± 5	
Water absorption: 24 hours immersion @ 23°C ASTM D570-22	< 0.12%	
Cold flexibility: ASTM D380	No cracks @ -35°C	
Size:	Flexseal HI300 No. 6/13	Flexseal HI300 No. 10/24
Hose inner diameter:	φ 6.0 mm	φ 10.0 mm
Hose outer diameter:	φ 13.0 mm	φ 24.0 mm
Hose discharge openings diameter:	φ 3 mm	
Accessories:	<ul style="list-style-type: none"> <li>» 20 m (10+10) Net Hose Pipe</li> <li>» 20 Connection Nipple</li> <li>» 20 End Cap (yellow)</li> <li>» 2 m Long Shrinkage Tube (Black)</li> <li>» 300 Fixing Clamps</li> <li>» 2 PreYellow Tape</li> </ul>	
Injection material:	Acrylic and polyurethane resins, or micro-fine cement	



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## METHOD OF USE

Before installing the injection hose, ensure that the type of injection hose is suitable for the project.

## SURFACE PREPARATION

All concrete surfaces should be clean, sound and free from dust, loose particles, unsound materials and any other contaminants. The concrete should be minimum 28 days old prior to commencing injection.

## ASSEMBLY

Fix the injection hose to the substrate using the hose clips and accessories provided. The vent hoses shall be placed outside the formwork in order to be easily found again.

The hoses should be fixed at intervals of 200 - 250 mm center to center to ensure they do not float in the fresh concrete during the casting process. Additionally, place sealing caps at the end of the vent hoses to prevent concrete from penetrating the hoses.

## INJECTION

When injection needs to be carried out, the following steps should be followed in sequence:

- » Fill the hose with injection material using injection pumps until flow is observed at the other end.
- » Plug that end with the end cap.
- » Pressurize the Flexseal HI300 injection hose.

Continue the injection process until either no material flows into the joint (indicated by no or only a slight pressure drop at the gauge), resin is observed flowing out of the joint, or a predetermined quantity has been injected.

Sealing is achieved using moderate pressure and a prolonged injection time, rather than high pressure over a short injection period.

It is recommended to repeat the same procedure from the other end to ensure even distribution along the length of the joint. Within the gel time, pressurize the hose again briefly.

Normally one injection is enough to completely seal the joint. However this depends on the quality of the concrete and/or the water pressure.

## PACKAGING

Flexseal HI300 is available in 100 m rolls.

## CAUTIONS

## HEALTH AND SAFETY

For further information refer to the Material Safety Data Sheet.

## MORE FROM DON CONSTRUCTION PRODUCTS

A wide range of construction chemical products are manufactured by DCP which include:

- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.

### Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.