cemseal®

Technical Data Sheet

CEMSEAL INJECTION HOSE SYSTEM

RE-INJECTABLE HOSE FOR SEALING CONSTRUCTION JOINTS

DESCRIPTION

CEMSEAL INJECTION HOSE SYSTEM is a re-injectable hose for sealing various construction and connection joints in watertight concrete structures. To seal the joint, CEMSEAL INJECTION HOSE SYSTEM is injected with suitable Cemseal Injection materials, such as acrylate and microfine cement suspensions (for multiple injections) or polyurethane and epoxy resins (for single injection).

FEATURES AND BENEFITS

- Multiple re-injections with acrylate resins or microfine cement suspensions
- One-time injectable with polyurethane and epoxy resins
- Easy and secure installation
- Ultimate grouting processes performed at 8m-12m intervals between injection points
- Economical handling due to simple, easy connection of accessory pieces
- Highly economical due to rapid laying times and injection processes

RECOMMENDED USE

- Sealing construction and connection joints
- Suitable for many different structures and construction methods where additional joint security/safety is required
- Prevents water ingress through concrete joints in the following typical structures: Water retaining or excluding structures, water reservoirs, dams, canals, sewage treatment plants, tunnels, subways, retaining walls
- As a back-up system for waterbars

PRODUCT PROPERTIES

CEMSEAL INJECTION HOSE SYSTEM KIT
Item details per kit :

Cemseal Re-Injection Hose	100 meter / roll
Impact Plug	400 pieces
Hose Clamp-S	400 pieces
Hose Coupler / Joiner	20 pieces
PVC Reinforced Hose	50 meter / roll

TECHNICAL PROPERTIES

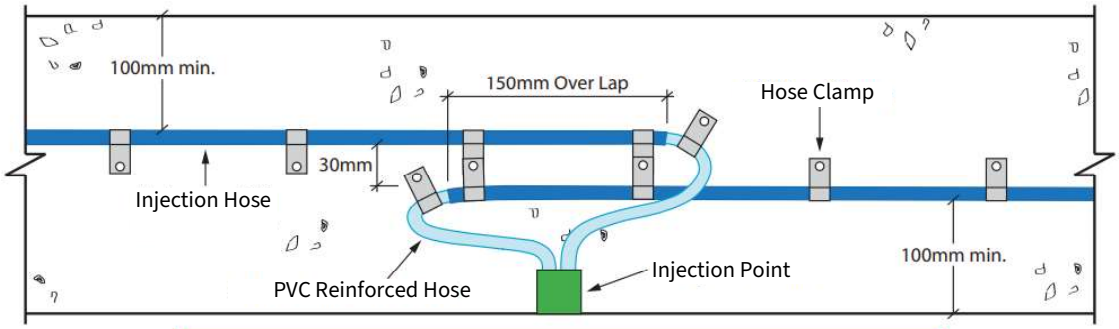
Profile	Circular
Outer Diameter	13mm
Inner Diameter	6mm
Roll Length	100 meters
Material	PVC - (Special Compound)

SUBSTRATE REQUIREMENT AND PREPARATION

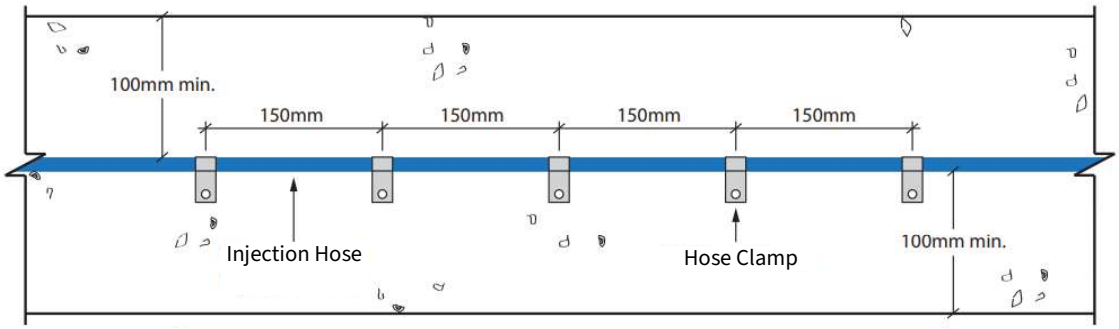
Concrete surface must be clean, and all loose materials removed before installing hose and placing concrete.

TYPICAL INSTALLATION

1. The surface to receive the CEMSEAL INJECTION HOSE SYSTEM must be structurally sound, clean, free from dust and laitance, be flat and not overly rough or have deep pitted holes, and any exposed aggregate to be chipped off.
2. CEMSEAL INJECTION HOSE SYSTEM is preferably positioned in the middle of the substrate and must have a 100mm minimum cover of concrete from any outside edge. Refer to Drawing 1 & 2.
3. CEMSEAL INJECTION HOSE SYSTEM must lie flat on the 1st concrete section with the hose clamps spaced every 150mm to 200mm apart. The injection hose should not be loose or lifting off from the concrete surface at any location. If the concrete surface is rough or uneven, then the hose clamp spacings may need to be positioned closer so the injection hose is fully touching the surface of the concrete. Refer to Drawing 2.
4. The standard installation length of CEMSEAL INJECTION HOSE SYSTEM is at approximately 8 metres to 12 metres, as this will allow for the best optimal injection process. For injection of Ultra Fine Cement (UFC) a maximum length of 8 meters should be used. Overlength applications of up to 30 metres are possible but correct installation procedures and the use of Acrylic Gel injection material must be used via a special 3K injection pump.
5. The Injection Points need to be placed in positions that allow for future access for injection of the CEMSEAL INJECTION HOSE SYSTEM. If an Injection Point needs to be positioned at a long distance from the actual injection hose location, due to accessibility requirements, then the use of PVC Reinforced Hose is required to channel the injection material from the Injection Point to the CEMSEAL INJECTION HOSE SYSTEM.
6. For guaranteed security and performance, it is suggested that two layers of CEMSEAL INJECTION HOSE SYSTEM be placed if the concrete substrate is greater than 1.0 metre wide or thick. For slabs, one positioned in the top third thickness and one in the bottom third thickness. For walls, one positioned in the outer third section and one in the inner third section.
7. At locations where two CEMSEAL INJECTION HOSE SYSTEM injection hose lengths meet at the joint face, to then connect to the Injection Point, both injection hoses must lap each other by 150mm and be at 30mm apart. Refer to Drawing 1.



DRAWING 1 : PLAN VIEW OF WALL



DRAWING 2 : SIDE ELEVATION OF BASE SLAB

STORAGE AND SHELF LIFE

Storage

CEMSEAL INJECTION HOSE SYSTEM should be stored properly in original, unopened and undamaged sealed packaging, in dry conditions out of direct sunlight at temperatures between +10°C and +40°C.

Shelf Life

Expected 5 years from the date of production with the above-mentioned storage conditions.

HEALTH AND SAFETY

User must refer to Safety Data Sheet before usage of this product.

BASIS OF TECHNICAL DATA

All technical data provided in this Technical Data Sheet are based on laboratory tests. Actual performance may vary due to factors beyond our control.

Disclaimer:
The information and any recommendations relating to the application and end-use of all CEMSEAL products are provided in good faith based on CEMSEAL's knowledge and experience of the products. In applications, the differences in materials, and variances of substrates and actual site conditions can vary such that no warranty in respect of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be taken as inferred either from this information, or from any written recommendations, or from any other advice offered by CEMSEAL. The proprietary rights of third parties must be observed. All orders are accepted subject to our sale terms and conditions. All users should always refer to the most recent and up to date issue of the Technical Data Sheet for the product concerned, which is available on request. It is recommended that products should always be properly stored, handled and applied under tested and recommended conditions.

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