

PREDIMAX® Injection Hose

Injection Hose for Economic Sealing of Construction Joints in Concrete Structures

PREDIMAX 11 and PREDIMAX 19

Product

PREDIMAX is a double-jacketed PVC based hose with offset openings and/or slots for outlet of compressed injection material to seal joints in subterranean constructions. The openings in the interior hose are offset from the openings in the outer hose, that is to say, cement paste is prevented from entering.



For installation, you have to fix the injection hose to the first concrete section by means of some suitable fastening and imbed it with the next concrete-work phase.

Use (in general)

The injection hose is used for sealing of construction joints which are permanently or occasionally exposed to loads due to subterranean, down-the-slope or surface water.

Construction joints which are required for structural engineering reasons can be designed non-positive and watertight.

Features for Installation

- Sufficient cross section of the duct (reducing inner friction of injection material thus allowing economical compression lengths) and permeability of the compression duct and outlet openings after concreting.
- Cement paste is prevented from entering during concrete work because of the hose-in-hose system
- Robust during installation under building-site conditions, fastening system included
- Easy handling and time-saving fitting
- No unwanted twisting when installing from the reel, because hose is circular
- Outlet of injection material from the concreted hose system even under slight pressure, that is to say, outlet of material is assured to all sides



- Smooth surface to avoid unwanted bonding between injection hose and concrete. **PREDIMAX** may therefore be applied quite easily with any injection material.
- Favourable relation between price and performance, maximum reliability, for **multiple injections**.
- Suitable for injection of regular cement (**PREDIMAX 19** only), fine cement, ultra fine cement, PU resin or PU foam resin, EP resin or acrylates
- Can be used for multiple injections
- Product certification to DIN EN ISO 9001
- Injection hose with continuous markings of meter length and control number
- PREDIMAX injection hose is a unique, patented technology *made in Switzerland*

Application

- Horizontal sealing of constructional joints: base/base, base/wall, wall/cover, cover/cover
- Vertical sealing of constructional joints: wall/wall
- Overground and underground workings, civil engineering, tunnel constructions, special-purpose
- **PREDIMAX** may be used for compressing and/or injecting resins, foamed resins, acrylates and ultra-fine-cement suspensions, fine cements or cement lime. **PREDIMAX 19** can be injected beside the above mentioned injection media also with regular Portland Cement.

Form of Delivery / Storage

	PREDIMAX 11	PREDIMAX 19
Reels of	100 m	100 m
	Sealed in tight shrink film	
Pallet with	2,500 m	1,000 m
Shelf life	5 years when stored protected against frost and permanent sunshine	

Technical Data

	PREDIMAX 11	PREDIMAX 19
Working material:	PVC	PVC
Colour shade	green	green
Inside diameter of hose:	6 mm	11 mm
Outside diameter of hose:	11 mm	19 mm
Weight:	0,11 kg/m	0,25 kg/m
Materials to be injected:	Resins, acrylates, fine cement, CEMproof cement lime	Resins, acrylates, fine cements, Portland Cement
Max. length of injection hose:	12 m	15 m -on request-
Outlet opening of outer hose:	5 mm	10 mm
Arrangement of holes in inner hose	every 20 mm staggered 90° outlets per 10 cm	every 20 mm staggered 90° outlets per 10 cm length
Temperature for use	Store the injection hose in a heated room when temperature is below +5 °C	

Installation of the BPA Injection Hose System

The PREDIMAX/CEM 11 injection hose is easy to install when you consider the following items of this installation manual:

Put the hose in the middle of the cold joint. The connection, ventilating hose / PREDIMAX/CEM 11 has to be placed completely inside the concrete structure.



The hose has to be well set on the cold joint and has to be fastened with hose clamps at **approx. 15 cm** distance (depending on surface of the concrete of the construction joint).



Overlapping: The overlapping should at least be 10 cm.



The injection ends shall be placed towards outside the formwork in order to be easily found again. **Two different possibilities are shown:**

Installation of the injection hose system by using **shutter connector** including rubber plate and a spider (for easy installation on the reinforcement)



Installing the ventilation hoses inside an **end box**: Important: Ventilation hoses have to be fixed in order to avoid a replacement during the concrete work.

