

# BPA-PREDIMAX® 19 Injection hose

**Injection Hose System for the efficient sealing of construction joints in concrete structures and tunnelling construction projects, for multiple and cement injection**

## PRODUCT DESCRIPTION

The BPA-Predimax® 19 Injection Hose is a high efficacy, double-jacketed, PVC hose which has the capability of being used for multiple injections of resin or cement-based materials to enable the sealing of construction joints in concrete.

BPA-Predimax® 19 Injection Hose System is a clever way to ‘future-proof’ your structure as its multiple injection capacity allows the use of BPA-Predimax® 19 for initial, scheduled, or remedial sealing of the joints.

BPA-Predimax® 19 Injection Hose is certified to meet the German General Building Code (abP).



## USES

BPA-Predimax® 19 is used for sealing of all forms 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 using BPA-Predimax® 19. Tunnel Top Injection by using Cement!

## HOW DOES INJECTION HOSE BPA-PREDIMAX® 19 WORK?

BPA-Predimax® 19 Injection Hose is a twin layer system made up of an internal hose, with big aperture outlets for the release of injection liquids, encased in an exterior hose whose shell contains slots which are placed offset from the openings of the inner hose. This twin layer technology reliably inhibits concrete fines from penetrating the inner shell of the BPA-Predimax® 19 Injection Hose ensuring the free passage of the injection medium into the concrete matrix.

The astute design of the BPA-Predimax® 19 System enables injection materials to be pumped at low pressure.

## CHARACTERISTICS AND ADVANTAGES

- ✧ Suitable for the injection with resins, acrylates, fine cements and ordinary Portland cement
- ✧ Injection hose with continuous markings of meter length and control number
- ✧ High efficacy, double-jacketed, twin layer PVC hose.
- ✧ multiple injection capacity
- ✧ Cement paste is prevented from entering the hose during concrete placement due to the offset system design
- ✧ Easy handling and time saving fitting
- ✧ Advanced design ensure even distribution of injection medium within the joint.
- ✧ Smooth surface to avoid unwanted bonding between injection hose and concrete.
- ✧ No unwanted twisting when installing from the reel due to circular hose form.

## PRODUCT DATA

	BPA-Predimax® 19 Injection Hose	Article - No.
<b>Dimensions/ Packaging</b>	Roll of 100 m // Pallet with 10 rolls/ 1000 m sealed in tight shrink film Colour: Predimax®- green	10-100
<b>Storage</b>	Shelf life 5 years when stored protected against frost and direct sunlight	



## APPROVALS

General Building Code Test Certificate (abP). Many additional functional tests by Bilfinger, Ph. Holzmann, Prof. Falkner

## TECHNICAL DATA

<b>Material:</b>	PVC
<b>Diameter internal:</b>	11 mm
<b>Diameter external:</b>	19 mm
<b>Injection materials:</b>	resins, acrylates, fine cement and even ordinary Portland cement
<b>Max. injection hose length:</b>	12 m to 15 m, special lengths tested up to 45 m! (IBMB)
<b>Discharge opening in outer hose:</b>	10 mm
<b>Hole layout in inner hose:</b>	Rotated by 90° at 20 mm intervals, i.e. six openings in every ten cm. of hose
<b>Weight:</b>	253 g/m

## ADDITIONAL INFORMATION

BPA-PREDIMAX® 19 Injection Hose is easy to install when the following instructions are observed:

- 🔗 Lay the hose along the middle of the joint.
- 🔗 The connection between the ventilation and the injection hoses and the BPA-Predimax® 19 Injection Hose must be completely embedded in the concrete.
- 🔗 The hose has to be well set on the cold joint and be fastened in place with hose clamps at intervals of approximately 15 cm (depending on the state of the joint).
- 🔗 The overlaps should be approximately 10cm.
- 🔗 The ends of the injection and ventilation hoses must be laid neatly and to the outside of the formwork so they can be easily retrieved.
- 🔗 Attention must be paid to good accessibility and ease of injection later on!
- 🔗 There are two options:
  1. Installation of the injection and ventilation hoses with shuttering connectors with foam rubber and rebar holders
  2. Ventilation and Injection Hose installation in a bushing:  
Important: Fasten the ventilation and injection hoses securely to prevent them being pulled out of the bushing during concreting.

### Preparation and general advice

Surrounding air temperature:            minimum -5°C

The above mentioned temperatures constitute the generally valid area in which no additional measures need to be taken during application.

### Environment and health



This product does not represent a hazardous substance within the meaning of the EU Hazardous Substances Regulation. A safety data sheet for transport, placing on the market and use is available on the request.

### **Dangers and Safety**

The essential safety, toxicological, physical and ecological data for the handling of BPA-Predimax® 19 can be taken from the product-specific safety data sheets.

### **Data**

All technical data stated in this product data sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

### **Legal advice**

All above mentioned Information concerning BPA-products, especially any recommendations and advices relating to the application and use of BPA products are given in good faith based on BPA's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with BPA's recommendations.

In practice, the differences in materials, actual site conditions and other factors outside are such that no warranty nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.

The user of the product must test the product's suitability for the intended application and purpose before proceeding with the full application of the products. BPA reserves the right to change the properties of its products without notice.

Users must always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request. All sales of BPA are subject to our current terms and conditions.

### **Local Restrictions**

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local product data sheet for the exact description of the application fields.

