

## TECHNO-Injection 210

A watertight injection foam for filling voids, joints, and cracks to stop water leakage.

### DESCRIPTION

**TECHNO-Injection 210** is a single-component injection resin on polyurethane base, which is employed for stopping water ingress, for stopping flowing water in combination with acrylate gel grouting, for ground and rock hardening, as well as for numerous other sealing requirements in civil and mining engineering and in tunnel construction.

TECHNO INJECTION 210 reacts with the water present in the injection area with strong foam formation.

With the addition of up to 10% TECHNO INJECTION® 210 Catalyst to the **TECHNO-Injection 210** polyurethane resin, the potlife can be reduced.

### ADVANTAGES

**TECHNO-Injection 210** is a solvent free, injection and filling material based on Polyurethane resins. The product reacts particularly well in wet structures and running water conditions. **TECHNO-Injection 210** has a good bonding to wet surfaces and very good ability to stop running water.

### USES

**TECHNO-Injection 210** is recommended for:

- Pre injection of cracks and joints in concrete
- Sealing of flowing / leaking water through
- voids cracks and joints in concrete structures
- Filling of water bearing voids

### PACKAGE

**TECHNO-Injection 210** is supplied in;

- 27.5 kg packs (25 kg + 2.5 kg catalyst)
- 24.2 kg packs (22 kg + 2.2 kg catalyst)
- 22 kg packs (20 kg +2 kg catalyst)



## TECHNICAL DATA OF TECHNO-INJECTION 210

TECHNO-INJECTION 210		Standard Methods
Consistency	Liquid	
Colour	Dark Brown	
Odor	Characteristics	
Spec. density (23°C)	1.14 g/cm <sup>3</sup>	EOS4-5227/2015
Dyn. viscosity (23°C)	230 mPas	EOS696/2021
<b>TECHNO-INJECTION 210 Catalyst</b>		
Consistency	Liquid	
Colour	Light yellow	
Odor	Amin-like	
Spec. density (23°C)	0.93 g/cm <sup>3</sup>	EOS4-5227/2015
Dyn. viscosity (23°C)	14 mPas	EOS696/2021
Processing temperature	5 – 40 °C	

## REACTION DATA

The reaction time is dependent on wet conditions and ambient temperature. The examples of reaction time with the maximum accelerator dosage have been measured in the laboratory. However, it is advisable to check the required reaction time on site.

Initial Temp. °C	5	10	15	20
Start time in sec	130	65	30	15
End time in sec.	350	250	120	60
Foaming factor	45	64	64	75

**Reaction time based on 10% catalyst.**

## APPLICATION



- Add the accelerator to TECHNO Injection 210 (between 2-10%, depending on the required reaction time), mix quickly and thoroughly.
- Inject this mixture through a single component injection pump. The wet conditions in the ground or structure will cause the foaming.
- It is recommended to use TECHNO Injection 230 after injection of TECHNO Injection 210 to achieve a more durable seal. After injection work has been completed, empty pump of any remaining material and thoroughly flush with a TECHNO Clean 200. It is then recommended to pump some Hydraulic oil through the pump. In this way the pump stays clean until the next use. Failure to do so may lead to pump and line blockage due to the reaction between the remaining resin and air humidity.

## HEALTH AND SAFETY

**TECHNO-Injection 210** contains isocyanates and additives and is classified as hazardous according to Regulation (EC) 1272/2008 (CLP). TECHNO INJECTION® 210 Catalyst contains amines. The product is also classified as hazardous according to Regulation (EC) 1272/2008 (CLP). It is therefore necessary, before beginning processing, to become familiar with the precautions and safety advice as indicated in the material safety data sheet.

## STORAGE & SHELF LIFE

**TECHNO-Injection 210** Shelf life at least 12 months in original packaging when stored in dry conditions between 15-25°C, protected from heat, frost and direct sunlight. After the expiration the use of the product is generally not recommended unless an approval has been provided by TECHNOSEAL. This approval can only be obtained by the quality assurance department of TECHNOSEAL releasing the material after verification of main properties being within specification.

## Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to Safety Data Sheet (SDS).



## Disposal

Small quantities of cured product residues can be disposed of as normal domestic waste. Dispose of not cured product components must be affected in accordance with the corresponding local regulations. For further information, please refer to the Material Safety Data Sheet (MSDS).

## Legal Notes

The information and the recommendations relating to the application are given in good faith based on TECHNOSEAL knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with TECHNOSEAL's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, 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. TECHNOSEAL reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the Product Data Sheet.

