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TECHNO-Injection 306

Low viscosity like water, controlled curing time acrylic resin for permanent water sealing

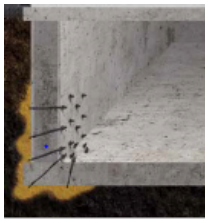
Description

TECHNO-Injection 306 acrylic resin is a highly reactive two-component acrylic resin with a low viscosity for good penetration. The product cures quickly, forming a rubber-like resin with the ability to withstand certain ground and crack movement. **TECHNO-Injection 306** acrylic resin is especially designed for concrete repair. **TECHNO-Injection 306** has a good chemical resistance against many acids, bases, solvents, and fuels etc. due to its high-quality material basis.
During reaction and in cured state **TECHNO-Injection 306** emits no toxic substances into the groundwater.

Features

- Very low viscosity
- Adjustable/controlled gel time between 4 and 30 minutes at (20 °C)
- Workable between (5 °C) to (40 °C)
- Good flexibility (Elongation at break more than 200%)
- Good chemical resistance against acids, bases, solvents, fuels, etc.
- Good bond strength to fractured rock and concrete, even under wet conditions.
- Environmentally preferable – harmless in contact with ground water
- Low viscosity allows deep penetration into very fine fissures and cracks.
- Good assimilation to ground movements or settlements.
- Durability of more than 10 years
- Water tightness up to more than 6 bar (88 psi)
- Non-corrosive
- Not sensitive to water and closely retains its original shape.

Applications



- Grout curtains injection, and construction joints injection.
- Injection in compartment systems using Re-injectable hoses in underground structures.
- Brickwork injection
- Concrete repair and Crack injection as well as Re-injection hose grouting
- Horizontal barriers and ground stabilization

- Securing TBM during tunnel construction
- Waterproofing treatment of tunnel concrete segments
- Swimming pool crack injection without discharging water inside.
- Permanent sealing of tunnel linings, shafts, and masonry against static ground water

Technical Data

	Appearance	Viscosity	Standard Method	Density	Standard Method
TECHNO-Injection 306 AI	Blue liquid	15 mPa・s	EOS696/2021	1.05 kg/L	EOS4-5227/2015
TECHNO-Injection 306 AII	Yellow liquid	160 mPa・s	EOS696/2021	1.09 kg/L	EOS4-5227/2015
TECHNO-Injection 307 B	White solid	N.A		2.5 kg/L	

Mixed material (mixing ratio A : B (1 : 1)

Curing Time	Appearance	Viscosity of Mixture	Standard Method
Pot lifetime; 5 mins	White liquid	2.5 mPa・s	EOS8497/2021
Final Curing 10 mins			

	Final properties			
Color	**Watertight**	**Appearance**	**Elongation at break**	**Water absorption**
White	Up to 6 bars	rubber like	+ 200%	25%

*Note: above given results based on mixing with clean tap water

Processing

The AII container is emptied completely into the AI container and mixed for approx. 3 minutes.
The B component is filled into ***the tap water same volume of AI***, then it is mixed again for 3 minutes.
The A and B components prepared in this way are ready for use and are processed 1:1 (parts by volume) by means of a 2 components injection pump.
The AI component activated with AII can be used for approx. 12 hours (depending on temperature).
Do not expose the activated AI component to the sun.

Packing

Component AI	20 kg plastic canister
Component AII	1.25 kg plastic bottle
Component B	300 gm plastic bag

Bigger packaging on request.

Storage

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 TECHNOSEAL has provided an approval. The quality assurance department of TECHNOSEAL can only obtain this approval 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.