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TECHNO-Injection 304

Low viscosity, fast-reacting, and highly flexible acrylic resin with adjustable reaction time for permanent water sealing, and joint repair.

Description

TECHNO-Injection 304 acrylic resin is a highly reactive two-component acrylic sealing resin with a low viscosity for good penetration. The product cures quickly, forming a highly flexible hydrogel with excellent swelling/re-swelling properties. Because of its excellent elongation and flexibility.

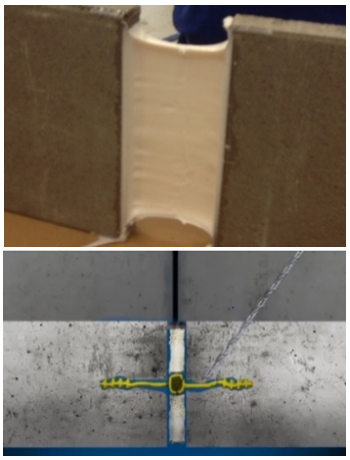
TECHNO-Injection 304 product can compensate for movement of cracks.
TECHNO-Injection 304 product retains its excellent swelling property in the presence of water, even after dry periods. During reaction and in cured state **TECHNO-Injection 304** emits no toxic substances into the groundwater.

Features

- Excellent adhesive properties, even on damp or wet surfaces
- Outstanding bonding to fractured rock and concrete, even under wet conditions.
- Highly flexible compact resin
- Controllable gel time (between 1 minute and 4 minutes at 20 °C.
- Swelling-fitted filling of cracks and fissures
- Re-swells upon exposure to moisture after dry periods, swells up to 100% of its initial volume.
- Harmless when in contact with groundwater, with no emission of dangerous substances
- Can accommodate structural and ground movements.
- Very low viscosity (water like) helps in deep penetration of the product into very fine cracks.
- Self-heals even after dry periods.
- Environmentally preferable

Applications

- Concrete repair .
- Expansion joints waterproofing injection.
- Construction joints waterproofing injection.
- Curtain waterproofing injection.
- Permanent water sealing of underground construction.
- Injection into damp areas or areas with standing water.
- Stopping of running water seepage through cracks.



Technical Data

	Appearance	Viscosity	Standard Method	Density	Standard Method
TECHNO-Injection 304 AI	Clear liquid	60 mPa・s	EOS696/2021	1.19 kg/L	EOS4-5227/2015
TECHNO-Injection 304 AII	Light yellow liquid	7.5 mPa・s	EOS696/2021	0.94 kg/L	EOS4-5227/2015
TECHNO-Injection 304 BI	White liquid	12 mPa・s	EOS696/2021	1.08 kg/L	EOS4-5227/2015
TECHNO-Injection 304 BII	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; 45 sec.	White liquid	4.2 mPa・s	EOS8497/2021
Final Curing 3 mins			

Final properties

Color	Watertight	Appearance	Elongation at break	Water absorption
White	Up to 2.7 bars	Soft Elastic	750%	20%

Processing

Add the AII component to AI component (0.6 kg of AII to 20 kg of AI), shake properly the mixture of AI and AII, the obtained mixture called Part A.

Add the BII component to BI component (0.4 kg of BII to 18 kg of BI), shake properly the mixture of BI and BII, the obtained mixture called Part B.

The A and B parts 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 light.

Packing

Component AI	20 kg plastic canister
Component AII.	0.6 kg plastic bottle
Component BI	20 Kg
Component BII	0.5 kg 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.