



EP 320

Solvent-free, Low Viscosity Epoxy Resin for Crack Injection

Pack Size

15kg & 1.5Kg

TDS
Technical Data Sheet



Product Description

EP 320 is a specialized two-component, epoxy resin-based system designed for effectively sealing cracks in concrete structures. This high-performance crack injection solution is ideal for grouting cracks ranging from 0.10 mm to 10 mm in width, as well as addressing cold joints and other structural imperfections. Its low viscosity allows for efficient penetration into fine cracks, ensuring a robust and durable repair.

Features

- Excellent bond strength for long-lasting repairs.
- High elastic modulus, ensuring effective stress transfer at the bond interface.
- Pre-measured components for consistent performance.
- Low viscosity, making it suitable for grouting fine cracks.
- Resistant to a wide range of chemicals and liquids.

Applications

EP 320 is suitable for a variety of crack repair and sealing applications in concrete structures. It can be used to address both fine and wide cracks, cold joints, and other structural imperfections, making it a versatile solution for construction and repair projects.

Substrate Preparation

To ensure optimal adhesion, the concrete surface must be hard, sound, and free from dust, paint, lime coatings, plaster, curing agents, laitance, adhesive residues, and other contaminants. Prepare the area by drilling appropriate holes and fixing the necessary injection packers or nipples, ensuring the holes are free from debris. Seal the entire length of the crack using a suitable adhesive before proceeding with the injection.

Mixing Instructions

Before combining, stir each component of EP 320 thoroughly. Pour the contents of Part A into a larger vessel, followed by Part B, and mix until a smooth, homogeneous mixture is achieved.

Application Method

The mixed EP 320 resin should be injected or grouted into the prepared cracks or joints using appropriate equipment, such as a low-pressure air-operated injection device, hand-operated cartridge gun, or syringe. Begin the injection process at each port or nipple, keeping adjacent ports closed. Continue injection until the resin emerges from the next port, then close the current port and proceed to the next.

Limitations

The mixed material has a limited pot life, after which its viscosity and performance characteristics will change. Any unused material

after this time should be discarded.

Cleaning

Tools and equipment can be cleaned with CLI N 18 immediately after use. Hardened material will require mechanical removal.

Technical Properties

Appearance:	Pale yellow liquid
Mixed Density:	1.05-1.15 g/cc
Viscosity:	250 ± 50 cps
Pot Life:	45 minutes
Application Limits:	0.1 mm - 10 mm
Tack Free Time:	6 hours
Compressive Strength (ASTM C579):	24 hours: >55 N/mm ² 7 days: >60 N/mm ²
Shrinkage (ASTM C881):	Passes
Full Chemical Cure:	7 days

Coverage Estimates

Coverage varies depending on the substrate, crack width, porosity, and application method.

Storage and Shelf Life

EP 320 has a shelf life of 12 months when stored in a dry place between 5°C and 30°C in its original unopened containers. Protect the product from frost, direct sunlight, and heat sources.

Precautions

During mixing and application, ensure adequate ventilation and avoid contact with eyes, nasal passages, mouth, and unprotected skin. Wear protective gloves and, if necessary, use a barrier cream. In case of contact with eyes or skin, rinse immediately with plenty of water and seek medical advice.

Disposal/Spillage

Absorb any spillage with sand or inert materials and transfer to a suitable disposal container. Dispose of spillage and empty packaging in accordance with local waste disposal regulations.

Conditions of Sale

Products are sold subject to the company's conditions of sale, available upon request.

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Data Reliability

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

Regional Compliance

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

Legal Disclaimer

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