

# eile EPX 120

## Epoxy-Based, High-Strength, Low-Viscosity Injection Resin

### Description

A high-strength, two-component, solvent-free, low-viscosity injection mortar for concrete **repair**.

### Areas of Use

*eile EPX 120* is used to fill voids and cracks in columns, beams, foundations, walls, and floors of bridges and other engineering structures. By injecting *eile EPX 120* into cracks and voids, it ensures the structural bonding of concrete elements.

### Product Features

- Solvent-free
- Can be used at low temperatures
- Cures without shrinkage
- High mechanical and adhesive strength
- Rigid but not brittle
- Low viscosity
- Can be injected using single-component pumps

### Application Procedure

#### Surface Preparation

The surfaces must have sufficient strength. The concrete must have a minimum compressive strength of 25 N/mm<sup>2</sup> and a tensile strength of at least 1.5 N/mm<sup>2</sup>. The surface should be clean, smooth, dry, and with no more than 5% moisture. All loose particles must be thoroughly cleaned, and the concrete should be at least 4 weeks old.

Avoid application in environments below 10°C and in very humid conditions. Pay attention to the mixing ratios.

#### Application

For horizontal floor cracks: Apply by brushing the mixture into the surface several times or by pouring the mixture and allowing it to fill the cracks. For cracks visible underneath the slab, first seal the underside with *eile EPX 100*.

For vertical structures: The mixed *eile EPX 120* can be pressure-injected into cracks using a single-component injection pump.

Injection Points (Packers) are placed along the sides of the crack at intervals of approximately 10-25 cm. During the injection process, the surface of the crack between the injection points is sealed with *eile EPX 100* epoxy-based repair mortar to prevent the resin from leaking out.

For vertical cracks, the injection process should always be performed from the bottom up. Once the resin is seen emerging from the next packer, the packer being injected is sealed, and the process continues from the following packer. After the injection process is complete, the injection points (packers) and the material used to seal the crack between them are removed.

### Technical Specifications

Colour	: Colourless
Brightness	: Bright
Solid matter by weight	: 100%
Specific Weight	: 1,05±0.05 gr/ml
Chemical strength	: 7 days 20°C
Compressive strength	: 50 N/mm <sup>2</sup>
Adherence to concrete	: 3-3,5 N/mm <sup>2</sup>
Tensile Strength	: 25 N/mm <sup>2</sup>
Mixture exposure time	: 30 minutes 20°C

### Package

Set: 3.750 kg

- Component A: 2.500 kg bucket
- Component B: 1.250 kg bucket

### Storage

Store in its unopened original packaging at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.

### Shelf Life

12 months from the production date. The production date is indicated on the packaging.

Safety Recommendations: During application, appropriate workwear, protective gloves, goggles, and masks in accordance with occupational health and safety regulations must be worn. Avoid contact with skin and eyes; if contact occurs, wash thoroughly with plenty of water. In case of ingestion, seek medical attention immediately. Store out of the reach of children. No food or drink should be kept in the areas where the application is taking place.

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