

Epifix-L10

Low viscosity solvent free injectable epoxy grouting compound.

Description

Epifix-L10 is a two-component, ultra-low viscosity free flowing epoxy system, without solvents, offering very strong adhesion to concrete and steel, as well as high compressive and flexural strength, even when applied on damp substrates.

It complies with the requirements of ASTM C 881-90, Type I, Grade 1, Class B+C.

Fields of application

Epifix-L10 is used to repair concrete cracks up to 6.0 mm wide by injection, in order to bond and restore the original monolithic structure.

It is also used to install and anchor reinforcement rods into existing concrete elements.

Technical data

Colour:	Component A: transparent Component B: amber Components A+B mixed: transparent / amber
Mixing Ratio:	2 : 1 (Part A:B by weight)
Mixed density:	1.08 ± 0.05 g/cm ³
Viscosity	200 ± 40 mPa.s at +25°C
Pot life, minutes at 27°C,	Approx. 45 mins
Service temperature:	+5 up to 80°C
Shrinkage: (EN 12671-1)	0.05%
Compressive strength: (DIN EN 196-1)	62 MPa at 07 days

Adhesion by tensile bond strength: (EN 12618-2)	5.6 MPa at 07 days
Adhesion by slant shear strength: (EN 12618-3)	Monolithic failure
Flexural Strength (DIN EN 196-1)	51 MPa at 07 days
Tensile strength: (ASTM D 638)	26.7 MPa
Elongation at break: (ASTM D 638)	2.6 %

Directions to use

Substrate preparation

The application surface should be free of materials that prevent bonding, e.g. dust, grease, loose particles etc. and without standing water.

Mixing

Components A (resin) and B (hardener) are packed in two separate containers, having the correct predetermined mixing proportion by weight. The whole quantity of comp. B is added into comp. A. The components should be mixed for about 5 minutes, using an appropriate hand tool (e.g. small trowel). It is important to stir the mixture thoroughly near the sides and bottom of the container, to achieve uniform dispersion of the hardener.

Application

A) Resin injections

1. Remove any existing plaster on either side of the crack and thoroughly clean the concrete substrate.
2. Seal the crack using EPIFIX-TX and fix injection nozzles along the crack, approx.



every 20 cm, with the same product. After EPIFIX-TX has hardened, start injecting **Epifix-L10** into the crack, by pressing the material through the nozzles, following this procedure:

- Place the resin outflow tube (e.g. spirit level tube) in the first nozzle. For a horizontal crack, start from one end. For a vertical crack, start from the lowest nozzle.
- Inject into the first nozzle by adjusting the outflow valve of the compression boiler, until **Epifix-L10** begins to flow out of the adjacent nozzle or until no further pressure can be applied.
- Cap the first nozzle and continue the injection through the next nozzle.
- Repeat this process until the entire length of the crack has been treated. Allow the material to cure and the next day, remove (break) the beetling nozzles and restore plastering.

B) Anchoring

Open holes of a bigger diameter than the rods to be installed and as deep as possible. For vertical elements, holes should not be opened horizontally, but in a dipping direction (downwards). Blow compressed air to clean the holes. Pour **Epifix-L10** into the holes in a quantity slightly bigger than necessary, so that putting the rod inside the hole will cause the material to flow out.

Remarks

- The workability of epoxy materials is affected by temperature. The ideal temperature of application is between +15°C and +35°C, for which the product obtains optimal workability and curing time. Room temperature below +15°C will extend the curing time, while temperatures above +40°C will reduce it. It is

recommended to mildly preheat the product in the winter, and store the product in a cool room before application in the summer.

- After hardening, **Epifix-L10** is totally safe for health.
- Epifix-L10** is intended for professional use\ only.

Cleaning

Clean tools and equipment first with paper towels and then wipe by using Acetone, xylene or other suitable solvents.

Packaging

Epifix-L10 is available in 2kg Kit and 4kg Kit

Shelf life

12 months from production date if stored in original, unopened packaging, at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.

Health & safety

Avoid direct contact with this product. Use of safety glasses, rubber gloves, and protective clothing is recommended. If contact occurs, wash affected areas with mild soap and water. Keep product out of reach of children.

Refer to Safety Data Sheet for complete health and safety information.

Notes

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