

## Restoration of passing and non-passing cracks in reinforced concrete structures with epoxy resin injections

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### APPLICATION DATA SHEET

Restoration of passing and non-passing cracks in reinforced concrete structures through:

1. substrate preparation;
2. drilling;
3. Injection of resin.

#### 1) SUBSTRATE PREPARATION

Preparation of the substrate by countersink of the cracks by means of a flexible hose and cleaning the substrate with total elimination of dust, grease, old crumbly paints and any material that could affect the good anchoring of the resin.

#### 2) DRILLING

Performing perforations by using a rotary drill for depths equal to at least two thirds of the depth of the lesion. The perforations will be made at the turn of the lesion, with a step between 15 and 25 cm. Careful cleaning of the holes made with compressed air to eliminate dust and inconsistent material and insertion of suitable plastic injectors to be blocked with **Kimitech EP-TX** two-component thixotropic epoxy adhesive. Using the same product, proceed to surface grouting the lesion.

#### 3) RESIN INJECTIONS

Injections made with a special gun or injection machine, from the bottom to the top, with solvent-free and low viscosity two-component fluid epoxy resin **Kimitech EP-IN**. As the holes are saturated, the injection tubes will be capped to avoid the return and therefore the leakage of the injected resin. Removal of the injectors used and grouting of the holes with **Kimitech EP-TX**.

#### POSSIBLE ALTERNATIVES

As an alternative to **Kimitech EP-IN**, it is possible to use **Kimitech EP-IN/ CMP** two-component epoxy resin or medium-viscosity two-component liquid epoxy resin **Kimitech EP-IS**.