

# INJEPOX 311

(former INJECTABLE RESIN TWO COMPONENT WITHOUT SOLVENTS)  
EPOXY-BASED, TWO COMPONENT INJECTABLE RESIN FOR CRACKS 0,5-3,0 mm

## GENERAL CHARACTERISTICS

**INJEPOX 311** is epoxy-based, two-component resin without solvents used for repairing cracks of 0,5-3,0 mm by injection.

- Provides strong bonding to concrete and steel and high compressive and flexural strength.
- Suitable for installation and anchoring of reinforcement rods into concrete elements.

## TECHNICAL DATA

Basis:	two-component epoxy resin
Appearance:	liquid
Color:	yellow transparent
Viscosity (A+B):	550 ± 10 mPa•s at 23°C
Density (A+B):	1,100 ± 0,010 gr/cm <sup>3</sup>
Mixing proportion (A:B):	66,6:33,4 by weight
Application time:	approx. 20 min at 23°C
Final strength:	after 7 days at 23°C
Compressive strength (A+B): (ASTM D 695)	55 N/mm <sup>2</sup> , 7 days at 23°C
Flexural strength (A+B): (Din 1164)	47 N/mm <sup>2</sup> , 7 days at 23°C
Temperature for the application and drying of the material:	10 – 35°C
Adhesive strength:	4,00 ± 0,20 N/mm <sup>2</sup> (breaking of concrete)

## PREPARATION - APPLICATION

**Applied on dry surfaces, free of materials that might prevent bonding e.g. dust, loose particles, grease etc.** The success in the application depends on the right preparation of the underlay and use of the material.

### Mixing

- Components A (resin) & B (hardener) are packed into separate containers in fixed weight proportions. The whole quantity of component B is added into component A and mixed using an appropriate hand tool for 1-2 min. Stirring of the mixture should be performed thoroughly near the sides and bottom of the container in order to achieve uniform dispersion of the hardener.

### Resin injections

- Removal of any existing plaster on both sides of the crack.

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- **Good, dry** cleaning of the crack from dust and loose particles.
- Sealing of the crack using **EPOFIX-V 209** (former EPOXY STUCCO FOR VERTICAL SURFACES) and placement of injection nozzles along, approximately every 20cm.
- After hardening of **EPOFIX-V 209** (former EPOXY STUCCO FOR VERTICAL SURFACES) follows injection of **INJEPOX 311** by pressing the material through the nozzles.
- The injection continues until the material begins to flow out of the adjacent nozzle or until no further pressure can be applied. Following the first nozzle is capped and the injection continuous to the next one. The procedure is repeated on the entire length of the crack.
- In case of horizontal cracks the injection procedure begins from one end, while in vertical cracks from the lowest point.
- Finally, the next day after the material is cured the nozzles are removed (braked) and plaster is restored.

#### **Anchoring of reinforcement rods**

- Holes are opened into concrete elements in a diameter bigger than the rods to be installed and cleaned by compressed air.
- **INJEPOX 311** is poured into the holes in a quantity more than necessary, in order to slightly flow out when the rod is placed.

#### **CONSUMPTION**

- For filling space of 1lit, it is needed approximately 1,1kg of **INJEPOX 311**.

#### **PACKAGING**

Supplied in packages of 1 kg and 3kg (two drums). Components A and B have the fixed weight proportion.

#### **STORAGE**

One year in unopened containers in dry places with minimum temperature 5°C.

#### **REMARKS**

- Working time of **INJEPOX 311** decreases when ambient temperature rises.
- After hardening, **INJEPOX 311** is completely safe for health.

#### **CAUTION**

The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water.  
**For more information consult the material safety data sheet.**

The information given here is true, represents our best knowledge and is based not only on laboratory work, but also on field experience. However, because of numerous factors affecting results we offer this information without any guarantee and no patent liability is assumed. For additional information or questions, contact the technical department of POLAT S.A.

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