

Injectec-R

Urethane injection repair kit for concrete foundation



1-Product description

1.1 USE

- Injectec is an injection system based on a polyurethane resin specially formulated for crack reparation in concrete foundations.
- When in contact with air and humidity, this resin reacts to form a flexible foam that completely fills cracks.
- Easy-to-use, it is ideal to fix water infiltration problems, at a reasonable cost.

1.2 ADVANTAGES

- Superior adhesion and flexibility
- Can be used to fix dry or humid cracks
- Expands and hardens to efficiently seal the crack

2- Installation

2.1 SURFACE PREPARATION

- Concrete temperature should be equal to or higher than 8 °C (46 °F) during all steps and for 3 days following injection.
- Remove all loose material and brush concrete at least 5 cm (2 in) on each side of the crack. Clean with water.
- Insert water into crack using the bottle included in the injection kit. This will create a humid site that will increase considerably resin reaction.
- It is recommended to install injection tubes and seal crack in a short time after water injection in order to keep humidity in the wall.

2.2 INSTALLATION OF INJECTION TUBES

- Nail the injection tubes using finishing nails or glue them using hot glue, silicone or patching mortar. Make sure the injection tube opening is over the crack and that it is not obstructed by selected adhesive.
- Install first injection tube 5 cm (2 in) from wall base, spacing other tubes 15 to 20 cm (6 to 8 in) apart depending on crack width. Injection tube will be closer for finer cracks.

Note: For corner cracks, cut injection tube base lengthwise in order to cover the crack with the opening of the injection tube.

2.3 SEALING

Very important: Injection success depends on patching mortar application. Carefully seal all crack surface and cover injection tubes base.

- **Patching mortar mixing:** In a clean container, pour 330 to 360 ml (11 to 12 ounces) of water per kilogram of mortar.
- Gradually add dry ingredients while continuously mixing to avoid hard lump formation.
- Mix only the amount of material that can be used in 10 minutes.
- Apply mortar in thin coat (3 mm, 1/8 in) over the crack using included spatula. Make sure that injection tube bases are well covered.

Wait a minimum of 3 hours before proceeding with injection.

2.4 INJECTION

- Use a good quality, caulking gun capable of withstanding strong pressure.
- **Wear gloves.**
- For very fine cracks, place material in hot water for a few minutes.
- Unscrew resin cartridge cap and screw on injection tip.
- Cut tip opening in a diameter smaller than injection tube mouth.
- Fit cartridge into caulking gun.
- Insert water in the injection tubes using the bottle included in the kit.
- Start injection in bottom injection tube, insert tip into tube mouth and slowly inject resin applying constant pressure.
- When resin comes out of the second injection tube, cap first tube and continue injection in the second tube until resin comes out of the third tube, and so forth.
- In case of leakage, stop injection immediately. Clean resin run-off, re-seal, wait 3 hours then continue injection.

2.5 FINISHING

- It is possible to remove injection tube and patching mortar using a chisel, 48 hours after injection.

Technical data sheet

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2.6 REMARKS

- Injection can be done from inside or outside but it is imperative to verify that the crack on opposite side of injection is blocked. Ex: a crack below ground level is blocked by ground but if it is above ground, it must be sealed before injecting otherwise resin will run away from that crack.
- This product must remain capped, as it will expand when exposed to air and humidity. It should not be used for surface reparation.
- Do not inject between wood and concrete.
- Injectec-R can be used in presence of small water leakage.
- Do not use for cracks thicker than 12 mm (1/2 po).
- When crack does not seem to fill properly (nothing comes out of following injection tube even after a considerable amount of material injected) stop injection, this probably means that there is an opening on the opposite side of the foundation wall (below ground). Verify the source of the problem.

2.7 YIELD

- 1 Injection tube can fill approximately 1 crack of dimensions:
2.5 m * 20 cm * 2 mm
(8 ft * 8 in * 1/16 in)
- Note that cracks can be irregular and contain cavities.

2.8 CLEANING

- Clean equipment, tools and containers with water immediately after application.

3. Packaging

This product is sold as a complete kit composed of:

- 1 injection cartridge of urethane based resin (300 ml)
- 1 kg of self adhesive patching mortar (fast set/ 20 minutes)
- 1 spatula
- 15 injection tubes with caps
- 1 water injection bottle
- Step by step detailed instructions

4. Storage

- Protect from freezing.
- Store in a cool, dry place.
- Shelf life is one year in unopened containers.
- Discard product that froze or that does not have a homogeneous consistency.

5. First aid

This product may cause eye, skin and respiratory system irritation. Wear rubber gloves and safety glasses. If swallowed, call a Poison Control centre or doctor immediately. Do not induce vomiting. In case of contact with eyes, rinse well with water for 15 minutes. In case of skin contact, rinse well with water. Keep out of reach of children. Consult the safety data sheet for more information.

6. Technical services

Contact Daubois for more information about application methods or conditions or to obtain the latest version of our technical documents.

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7. Warranty

Daubois guarantees that this product will perform as specified in this technical data sheet and suits the application for which it was intended. Nonetheless, Daubois does not offer any explicit or implicit warranty. Under this warranty, Daubois' responsibility is limited to either replace or refund the cost of the product proved defective.