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PLASMET Corrocoat Epoxy Injection Grout & Resin

Product reference: 5/44

Product title: Epoxy Injection Grout & Resin

Valid from: 15th January 2001

Last reviewed: July 2019

Type

A two-pack cold cured epoxy injection material with high tensile strength.

Suggested use

Both products are designed for use as a high tensile strength crack filler for concrete, applied using injection methods. Corrocoat Epoxy Injection Resin is a low viscosity material, designed for use on small and narrow cracks, Corrocoat Epoxy Injection Grout is a higher viscosity filled material, appropriate for cracks wider than 2mm.

Limitations

Do not use at temperatures below 41°F (5°C).

Health & safety

Before handling or using this product, the material safety data sheets should be read and all precautions observed.

Surface preparation

Corrocoat Epoxy Injection Grout and Resin may be applied onto damp concrete surfaces with minimal surface preparation. For best results however the surface laitance should be removed and the concrete abraded then vacuumed prior to application.

Application equipment

Airless 45:1 or higher spray pump, diaphragm pump or similar positive displacement pump.

Application

A pressure plate should be prepared sufficiently large to cover the crack to be injected. Inlet and outlets (minimum diameter 1⁄2" or 12.5mm nominal bore) shall be positioned in such a way to be at each end of the crack. Valves to be fitted to the inlet and outlet. For large or deep cracks additional air bleed pipes may be required.

Use raw bolts or similar firmly attach the plate to the surface. Use small diameter 'O' ring or similar either side of the crack to affect a seal, clamp the 'O' ring between the plate and the concrete.

Pump the product at low pressure from one end only until the product flows freely from the outlet, for best results on vertical cracks pump form the bottom upwards. Close the outlet valve and leave the plate under a pressure of circa 2 bar for at least 1 hour (if the pressure continues to drop over this period this would indicate large quantities of product are flowing through and out of the crack, stop pumping and allow the product to cure. Remove the plate to assess the extent of the filling and continue the injection with material as above). After 1 hour close the inlet valve, flush spray equipment and lines with solvent, and leave the crack under pressure for at least 24 hours. After 24 hours remove the pressure plate, fill and dress the crack by hand if required.

Mixing ratio

Epoxy Injection Grout: 100 parts base to 46 parts hardener
Epoxy Injection Resin: 100 parts base to 98 parts hardener.

Both ratios by weight.

Pot life

Greater than 2 1⁄2 hours at 68°F (20°C), greater than 1 1⁄2 hours at 86°F (30°C).

Pot lives will vary significantly with temperature, values are approximate and are given without guarantee or liability.

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Thinners

The performance of this product will be adversely affected by the addition of solvents, **do not add thinners.**

Packaging

1 Gallon and 5 Gallon kits

Storage life

2 years minimum in unopened tins, stored at 41-104°F (5-40ºC).

Color availability

Brown/unpigmented (other colors available on request, price subject to color and quantity).

Volume solids

Epoxy Injection Grout 91.2% Epoxy Injection Resin 90.6%

Mixed specific gravity

Epoxy Injection Grout
0.031lbs/cubic inch (0.851g/cm3)
Epoxy Injection Resin
0.32lbs/cubic inch (0.872g/cm3)

Overcoating time

Materials may be overcoated after 24 hours at 68°F (20°C), will vary depending on ambient conditions and application. Maximum overcoating time 72 hours at 68°F (20°C).

Cleaning solvent

Acetone, MEK or MIBK prior to gelation, for best results use Corrocoat epoxy equipment cleaner on pumps. Observe safety precautions.

Revised 05/2018
Revised 07/2019

All values are approximate. Physical data is based on the product being in good condition before polymerization, correctly catalyzed and full cure being attained. Unless otherwise stated, physical data is based on a test temperature of 68°F (20°C), test results may vary with temperature. Information regarding application of the product is available in the Corrocoat manual. Should further information be required, please consult Corrocoat Technical Services.