



Item#: C311 Revised: 2-13-2011

Compound Polymer Paste 1-to-1 Epoxy Repair and Filler

Description

Epoxytec CPP Gel™ is a two-component, high strength, extremely forgiving/tolerant, vertical and overhead, non-sag, fast set epoxy paste, packaged in a convenient 1-to-1 mix ratio to use as needed and restock. The Epoxytec CPP Gel™ provides point-of-use application to save time and material. The material has a wide variety of applications, and is often sought for concrete, steel, and other substrate repairs, filling, patching, and as an adhesive. Epoxy-based - the material is a sealed and protective solution to combat corrosion.

Typical Uses

- Segmental epoxy
- Anchoring epoxy
- Adhesive
- Sealed patching filler
- Concrete repair and protection
- Chemical resistance
- Ultra high moisture, wet solution

Features

- 1:1 mix ratio (to use as needed)
- Moisture tolerant (cures underwater)
- Surface tolerant
- Superior, ultra high adhesion
- High build, superior hanging
- No sag
- Chemical resistant
- Self-priming
- High strength

Color

CPP Gel™ is offered in Concrete Grey.

Film Thickness

CPP Gel™ can be applied as a single coat or multi-coat system. It can be feather-edged from a low mil thickness (almost transparent) to a high build barrier liner of 1.5" (inches) thick without sag.

Theoretical Coverage

CPP Gel™ is 100% solid and will not shrink. Therefore, the theoretical coverage properties between wet film thickness (WFT) and dry film thickness (DFT) are the same. Twenty-six (26)

square feet (sq.ft.) per gallon (gal.) at 1/16 inch (62.5 mils) thick. One gallon of neat CPP Gel™ yields 231 cu.in. of epoxy.

Application Method

CPP Gel™ must be applied by trowel or spatula. Part A paste must be mix with Part B paste, recommended to do so on a mixing board, until both parts become one homogenous color. CPP Gel™ is self-priming.

Adhesive: Apply to both bonding surfaces with spatula, trowel, or caulking gun. Join material. If necessary, clamp until cured. Strike off excess material.

Anchoring Bolts: Vertical and overhead. Partially fill drill hole with CPP Gel™. It is permissible for the hole to be damp (remove excess water), however, the bolt must be dry. Work bolt in and out to compact the paste. Secure with templates. With bolt in position fill in remaining void.

Repair Patching / Filling: Vertical and horizontal surfaces. Apply to area with trowel, spatula, or caulking gun. Work in at a maximum 1.5" per coat.

Thinning

CPP Gel™ cannot be thinned.

Surface Preparation

The success of any coating application is directly proportional to the completeness of the substrate preparation and the care the application crew puts into the application. Surface must be clean and sound. Remove all dust, contaminants, grease, curing compounds, rust, impregnation, waxes, foreign particles, and disintegrated materials from the surface, in order to achieve a clean and profiled surface.

Concrete: Prepare the concrete by abrasive blasting and/or high pressure water cleaning, and/or approved mechanical methods.

Wood: Remove all loose particles, rot, and soft spots. The area to be coated should be sanded and rinsed. Allow time to dry thoroughly.



CPP Gel™

Steel: Before preparing steel, please inspect and remove oil, grease, or other contaminants - "Solvent Cleaning" (SSPC-SP1) may be required. Remove all sharp peaks, including weld spatter. Abrasive blasting (or other approved mechanical methods) must be used in order to achieve a clean surface with a minimum profile of 3 mils. To prevent flash rusting, consider the use of an Epoxytec recommended primer.

Packaging

- 2 Gallon Kit (cans)
- 1,500mL Dual Cartridges
- 600mL Dual Cartridges

Shelf Life

Shelf life is five (5) years, sealed. Store in room temperature or sheltered areas between 60°F and 80°F (15C and 27C).

Mixing

1 Part "A" to 1 Part "B" - Mix both parts together until a smooth consistent grey paste is formed without streaks or lumps. This product must be applied within 30 – 40 minutes after mixing. This time frame can be extended at lower temperatures and reduced at higher.

A heat lamp can be used to speed up the curing time if necessary.

Performance Properties

Solids by Volume ASTM D2697	100%
Solvent (VOC) ASTM D3960	None
Pot (Mixed) Life	30 min. (25C / 200 g mass)
Adhesion Strength (concrete) ASTM D4541	Substrate Failure
Tensile Bond to Wet Concrete	525 psi
Tensile Strength ASTM D638	8,500 psi
Diagonal Shear Strength ASTM E519	6,365 psi
Compressive Strength ASTM D695	8,320 psi
Gel Time	15 minutes
Complete Cure	3 hours
Recoat Time	indefinite
Water Absorption	0.2%
Consistency	Paste (Thixotropic)
Epoxide Equivalent of Resin	182.94
Material Operational Temperature	+75F

* Safety: Consult Material Safety Data Sheet for all pertinent material safety information.