



Fluoropolymer Linings and Coatings

Technical Data

FluoroGrip® – Conductive Primer CP-300

Industrial Uses

Type

FluoroGrip® Conductive Primer CP-300 is a two-component epoxy system designed for applications where conductive properties are required. CP-300 can be used over a variety of substrates. It has excellent adhesion to concrete, steel, wood and FluoroGrip® fluoropolymers.

Uses

As a conductive primer for use under FluoroGrip® membranes and lining systems.

Packaging

CP-300 is packaged in 1 Gallon and Quart units.

Coverage

One unit of CP-300 will cover approximately 1230 (WFT) sq. ft. at 1 mil (theoretical – no loss included). The recommended Dry Film thickness (DFT) is 4-6 mils in a single coat application.

Preparation

CP-300 may be installed only on clean, sound surfaces. All coatings, oils, grease and unsound concrete substrate must be removed. Concrete surfaces must then be acid etched, high-pressure washed, scarified or blasted to remove surface laitance and contaminants. Metal surfaces should be profiled (1.5-2.5mils) by power tool or blasting to a minimum Near White Grade (NACE-2). New concrete must be cured for a minimum of 28 days.

Mixing

Prior to starting, materials should be stored at 70°F (21°C) for at least 24 hours. Add Part A to Part B and mix well for 3 to 5 minutes. Working time of mixture is up to 1 hour. For small projects the mix ration is 1:3 – Part A to Part B.

Application

For best results, substrate temperature should be 65°F – 85°F (18° – 29°C) during application and for 7 days for complete cure. Do not apply if surface temperature is below 60°F (16°C). CP-300 can be applied by spray, brush, or roller. Do not apply thicker than 13 mils WFT (10 mils DFT) per coat, as there will be the potential for solvent entrapment.

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Physical Properties

Color: Black

Electrical Resistance:

Point-to-Ground Resistivity: <1.0 ohm

Surface Resistivity: <1.0 ohms sq.

Compressive Strength (psi), ASTM C-579 (resin): 11,000 psi

Tensile Strength (psi), ASTM C-638 (resin): 17,500 psi

Indentation, MIL-D-3134F: No indentation

**Abrasion Resistance, ASTM D-1044 1,000 Cycles,
CS-17 Wheel at 1,000 grams:** 120 milligrams

Working Time at 75°F (24°C) ASTM C-308: 1 hour

Maximum Temperatures:

Wet Exposure: 160°F (71°C)

Dry Heat: 225°F (107°C)

Shelf Life: 1 year

Solids by Content:

By Weight: 83%

By Volume: 75%

Integument

Integument Technologies, Inc.

70 Pearce Avenue, Tonawanda, NY 14150

Phone: (716) 873-1199 • Fax: (716) 873-1303

e-mail: info@integument.com

www.integument.com

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Curing

CP-300 will be tack free in 4-8 hours, depending on temperature, and final cure in 7 days at 70°F. Can be top-coated with FluoroGrip® membranes and linings within 4-6 hours at 70°F. Increasing the substrate temperature can accelerate cure. Do not heat over 120°F (49°C), and only increase at a rate of 20°F (-7°C) per hour. CAUTION: CP-300 vapors are extremely flammable. Maintain ventilation in the area. Do not allow sparks or flames in the vicinity of vapors.

Clean Up

Cured or hardened CP-300 will bond to practically all surfaces and is extremely difficult to remove. Clean all tools and mixer immediately after use with acetone or other solvent based cleaners.

Safety

Make every effort to avoid contact with skin. If accidental eye contact occurs, flush with water and consult a physician immediately. Keep work areas well ventilated. Never reseal a container of mixed Part A and B as the continuing reaction may cause container to explode. CP-300 is manufactured using solvents that vaporize during application. Cured product poses no threat of odor contamination. CP-300 Material Safety Data Sheets are available upon request.

Note

Refer to FluoroGrip, installation manual and instruction guide for use with FluoroGrip® membrane and lining systems.

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