



HPC/Industrial Maintenance

PITT-GUARD® Direct-to-Rust Epoxy Mastic Coatings

GENERAL DESCRIPTION

PITT-GUARD® DTR products are intended for use where one coat high build barrier type protection is required for properly prepared metal substrates such as steel, aluminum or hot dipped galvanized steel and for use on properly prepared masonry. Their excellent wetting properties allow application and good performance over tightly adhering rust.

RECOMMENDED USES

Aluminum Concrete, Stucco, Plaster, Masonry
Drywall CMU
Ferrous Metal
Galvanized Steel

FEATURES AND BENEFITS

Barrier coat corrosion protection
Excellent adhesion to minimally prepared surfaces
Tintable to hundreds of colors with the computerized PerformaColor system
No topcoat needed for corrosion protection
Ready mixed colors for immersion service
Can earn LEED NC Version 2.2 Credits

MIXING AND APPLICATIONS INFORMATION

Mix both components thoroughly before blending. 97-723 Accelerator can be used at 3.202 per mixed gallon. If 97-723 Accelerator is used, add it to "A" Component and mix well prior to the addition of "B" Component. Add Component "B" to Component "A" and blend well using a mechanical mixer. Be sure to mix the correct A and B components. Explosion-proof equipment must be used when coating with these materials in confined areas. Keep containers closed and away from heat, sparks, and flames when not in use.

Permissible temperatures during application:

Material: 60° to 90° F 15°C to 32°C
Ambient: 50° to 100° F 10°C to 38°C
Substrate: 50° to 130° F 10°C to 54°C

Application Equipment: Changes in application equipment, pressures and/or tip sizes may be required depending on ambient temperatures and application conditions.

Brush: Polyester/Nylon Brush

Roller: 3/8" nap solvent resistant core

Airless Spray: Pressure 1500 psi, tip 0.017" to .0021"

Conventional Spray: Fluid Nozzle: DeVilbiss 510 or JGA gun, with 704 or 777 air cap with E tip and needle, or comparable equipment.

Atomization Pressure: 55-70.

Fluid Pressure: Can not specify, dependent on numerous factors.

Thinning: Add reducer prior to digestion and re-stir before use. When 97-725 causes lifting; 97-727 may be used when substrate temperature is below 100°F (37.7°C) resulting in a shorter pot life. For 2.08 lbs./gal. VOC, thin up to 19% with 97-725.

Conventional Spray: up to 32 oz./gallon with 97-725.

Airless Spray: up to 25 oz./gallon with 97-725.

Brush: up to 25 oz./gallon with 97-734.

Roller: up to 25 oz./gallon with 97-734.

TINTING AND BASE INFORMATION

These products are designed to be tinted with colorants of the PerformaColor® System. Use formulas from the PerformaColor System Software. DO NOT TINT WITH 96 LINE CUSTOM COLORANTS.

Table with 2 columns: Product Code and Color Name. Rows include 97-144 (Black), 97-145 (Porcelain White), 97-147 (Beige), 97-148 (Gray), 97-149 (Ready Mix Component B), 97-1500 (Neutral Base), 97-1512 (White Base), 97-158 (Tint Base Component B).

PRODUCT DATA

PRODUCT TYPE: Polyamide-Epoxy Two Component
GLOSS: Semi-Gloss: 25 to 55 (60° Gloss Meter)

VOC*: 128 g/L (1.07 lbs./gal.)

COVERAGE: 195 to 340 sq. ft./gal. (18 to 31 sq. m/3.78L)

Coverage figures do not include loss due to surface irregularities and porosity or material loss due to application method or mixing.

DFT: 4.0 to 7.0 mils

WEIGHT/GALLON*: 12.4 lbs.(5.6 kg)+/-0.4 lbs. (182 g)

VOLUME SOLIDS*: 85% +/- 2%

WEIGHT SOLIDS*: 91% +/- 2%

MIXED RATIO: One part Component A to one part Component B

*Product data calculated on mixed 97-145.

Wet Film Thickness: 4.7 to 8.2 mils

Wet Microns: 119 to 208

Dry Film Thickness: 4.0 to 7.0 mils

Dry Microns: 102 to 178

DRYING TIME: Dry time @77°F (25°C); 50% relative humidity.

To Touch: 8 hours

To Handle: 16 hours

To Recoat: 16 hours

Accelerated Recoat: 9 hours

Drying times listed may vary depending on temperature, humidity, film build, color, and air movement.

POT LIFE: 4 hours at 77°F (25°C); 2 hours when 97-723 accelerator is used.

INDUCTION TIME: 30 minutes

CLEAN UP: PPG Thinners 97-725, 97-727, 97-734

FLASH POINT: 97-145 106°F, (41.1°C)
97-149 164°F (73.3°C)

GENERAL SURFACE PREPARATION

The surface to be coated must be dry, clean, and free of oil, grease, release agents, curing compounds, and other foreign materials. The service life of the coating is directly related to the surface preparation. **WARNING!** If you scrape, sand, or remove old paint, you may release lead dust or fumes. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.** Wear a properly fitted NIOSH-approved respirator and prevent skin contact to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the USEPA National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead. In Canada contact a regional Health Canada office. Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

ALUMINUM: Solvent Clean per SSPC-SP1 to remove grease and oils and then SSPC-SP7.

CONCRETE MASONRY UNITS: Allow the mortar to cure for thirty (30) days under normal drying conditions. Remove all dirt, dust, grime, loose mortar and all other forms of contamination.

CONCRETE, STUCCO, PLASTER, MASONRY other than CMU: Allow all concrete, mortar, plaster, etc. to cure for thirty (30) days under normal drying conditions. Remove all dirt, dust, grime, loose mortar and all other forms of contamination. Concrete which has been treated with curing compounds or hardeners, should be thoroughly abraded.

FERROUS METAL: Rust and other surface contaminants must be removed. Then the surface thoroughly cleaned to remove all other contaminants. Non-Immersion = SSPC-SP2, Immersion = SSPC-SP10.

GALVANIZED STEEL: Solvent Clean per SSPC-SP1 to remove grease and oils. If any oxidation (white rust) has formed, sand and remove all forms of contamination. If the galvanized has been passivated or stabilized, the surface must be abraded i.e. Brush-Off Blast Clean per SSPC-SP7 or chemically treat the surface.

RECOMMENDED PRIMERS

Aluminum	Self priming
Concrete Masonry Units	16-90, 97-685/97-686
Concrete, Stucco, Plaster Masonry other than CM Unit	Self priming
Drywall	Self priming
Ferrous Metal	Self priming
Galvanized Steel	Self priming
Wood and Hardboard	Self priming

PACKAGING

1-Gallon (3.78L)
5-Gallon (18.9L)

LIMITATIONS OF USE

For Professional Use Only; Not Intended for Household Use. Apply only when material temperature is above 60°F(15°C) and air, and surface temperatures is at least 5°F (3°C) above the dew point. Avoid exterior painting late in the day when dew or condensation are likely to form or if rain is anticipated. Not recommended for use in swimming pools or with alkyd oil top coats. Hot rolled steel should be prepared by abrasive blast cleaning whenever possible. The inherent nature of the chemistry of this product causes the film to yellow. This yellowing process continues as the film ages and may vary with application conditions. This yellowing process does not detract from coating performance. These products also lose gloss and chalk on exterior exposure, but film integrity is not affected.

SAFETY

Proper safety procedures should be followed at all times while handling this product. **USE WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN.** Spray equipment must be handled with due care and in accordance with manufacturer's recommendation. High-pressure injection of coatings into the skin by airless equipment may cause serious injury. Read all label and Material Safety Data Sheet for important health/safety information prior to use. MSDS are available through our website www.ppghpc.com or by calling 1-800-441-9695.

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