



HPC/Industrial Maintenance

PITT-GUARD® All Weather Direct-To-Rust Epoxy Coatings

GENERAL DESCRIPTION

These products are recommended for application to extend the coating period for cold climates, for damp surfaces and for jobs where fast recoat is required. Use on exterior/interior jobs where one coat high build barrier type protection is required. Adheres to properly prepared rusty surfaces.

TINTING AND BASE INFORMATION

DO NOT TINT. Colors will darken when exposed to UV.

97-946	Primer White, Component A
97-948	Gray, Component A
97-949	Component B Catalyst

RECOMMENDED USES

- Aluminum
- Hot Dipped Galvanized Steel
- Masonry
- Steel

PRODUCT DATA

PRODUCT TYPE:	Epoxy Two Component
GLOSS:	Semi-Gloss: 20 to 25 (60° Gloss Meter)
VOC* #:	245 g/L (2.04 lbs./gal.)
COVERAGE:	165 to 290 sq. ft./gal. (15 to 27 sq. m/3.78L)
Note: Does not include loss due to varying application method, surface porosity, or mixing.	
DFT:	4.0 mils min. to 7.0 mils max./coat 2 coats required for immersion service.
WEIGHT/GALLON*:	12.0 lbs. (5.5 kg) +/- 0.4 lbs. (182 g)
VOLUME SOLIDS*:	72.2% +/- 2%
WEIGHT SOLIDS*:	83.2% +/- 2%

*Product data calculated on 97-948

#VOC determined by EPA method 24 based on 97-946/97-949.

FEATURES AND BENEFITS

- Low temperature coating cure
- Fast recoat at normal temperatures
- Barrier coat corrosion protection
- Maximum surface protection with minimal surface preparation
- Longer recoat window than conventional two component epoxies
- High heat tolerant to 400°F (205°C)
- Can earn LEED NC Version 2.2 Credits

PACKAGING

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

MIX RATIO: 1 part Component A to 1 part Component B
Results will vary by color, thinning and other additives.

Wet Film Thickness:	5.5 mils to 9.7 mils*
Wet Microns:	140 to 246
Dry Film Thickness:	4.0 mils to 7.0 mils
Dry Microns:	102 to 178

POT LIFE: 4 hours

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

To Touch: 4 hours

To Handle: 8 hours

To Recoat: 3 hours

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

CLEANUP: 97-725, 97-727, 97-734 PPG Thinners

FLASH POINT: 97-946 70°F (21°C)

97-949 66°F (19°C)

97-948 70°F (21°C)

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GENERAL SURFACE PREPARATION

Remove all loose paint, mill scale, and rust. The surface to be coated must be dimensionally stable, dry, clean, and free of oil, grease, release agents, curing compounds, and other foreign materials. Where appropriate bare areas should be primed with a suitable primer. **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.

PREVIOUSLY PAINTED SURFACES: Old coatings should be tested for adhesion of the existing system and lifting by the proposed top-coat.

STEEL: Non-Immersion Service -- Minimum surface preparation for ferrous metal substrates is wire brush (SSPC-SP2/3) to remove all loose rust and paint. Service life of coating is in direct proportion to surface preparation.

Immersion Service -- Near White metal blast (SSPC-SP10) is mandatory for ferrous metals.

ALUMINUM: Must be lightly blasted to remove contaminants and provide an anchor pattern prior to coating. If the blasting is not done, the aluminum must be pretreated with Polyclutch® Wash Primer, 97-687/688. Note, the POLYCLUTCH® Wash Primer must dry overnight before applying the All Weather PITT-GUARD® D-T-R.

HOT DIPPED GALVANIZED STEEL: Stabilizers on the surface of the galvanized steel must be removed by either brush blasting, sanding or chemical treatment prior to coating to promote adhesion.

CONCRETE: These surfaces should be either acid etched or brush blasted prior to coating. Test for moisture using ASTM-D4263 before coating.

HPC Systems in Detail Brochure (H10788) COATING SYSTEMS: 224-HD, 228-HD, 239-HD, 322-HD, 323-HD, 421-HD, 430-HD, 435-HD, 477-HD. For specific recommendations, see your PITTSBURGH® Paints dealer or call 1-800-441-9695.

MIXING AND APPLICATION INFORMATION

Mix both components thoroughly before blending. Add Component "B" to Component "A" and blend well using a mechanical mixer. Do not use 97-723 Accelerator with these products. Air or airless spray preferred. Brush application to be used only for small areas such as weld seams. Recommended thickness is 4-7 mils dft. It is accepted for dft to be up to 10 mils in spot and overlap areas, provided the 4-7 mil dft specification is met when measured according to SSPC-PA2.

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

Conventional Spray: Fluid Nozzle: DeVilbiss MBC-510 or JGA gun, with 704 or 777 air cap with E tip and needle, or comparable equipment. Atomization Pressure: 55-70 psi. Fluid Pressure: Can not specify dependent on numerous factors.

Airless Spray: Pressure: 1500 psi, tip 0.017" - 0.021" Spray equipment must be handled with due care and in accordance with manufacturer's recommendations. High pressure injection of coatings into the skin by airless equipment may cause serious injury.

Brush: High Quality Natural Bristle Brush

Roller: Short Nap Roller Cover

Thinning: Thinning is not normally required for spray application. Over thinning will result in reduced film build properties. Conventional Spray: If necessary, up to 12 oz. per gallon with 97-727 in cool weather or 97-737 in warm weather.

Permissible temperatures during application:

Material:	35 to 90°F	2 to 32°C
Ambient:	35 to 100°F	2 to 38°C
Substrate:	35 to 130°F	2 to 54°C

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RECOMMENDED PRIMERS

None. Self priming on properly prepared surfaces.

LIMITATIONS OF USE

Apply when air and surface temperatures are above 32°F (0°C) and surface temperatures are at least 5°F (3°C) above the dew point and no frost or ice is present on the substrate. These products may be applied to damp surfaces but not when the surface appears to shine from moisture or there is standing water. These products will yellow, chalk and lose gloss with age on exterior exposure, but will not affect the integrity of the film. Use a suitable urethane or acrylic topcoat on exterior applications where color is critical. Do not overcoat with an alkyd-oil topcoat. For professional use only; not intended for household use.

SAFETY

Proper safety procedures should be followed at all times while handling this product. 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. **USE WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN.** Read all label and Material Safety Data Sheet for important health/safety information prior to use. MSDS are available through our website www.ppghcp.com or by calling 1-800-441-9695.