



HPC/Industrial Maintenance

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

Generic Type

Epoxy Two Component

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

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

Recommended Uses

- Aluminum
- Masonry
- Steel
- Hot Dipped Galvanized Steel

Features / 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.
- Can be a single coat system- No topcoat needed for corrosion protection

Limitations of Use

Apply only when air, surface, and product 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. Avoid exterior painting late in the day when dew or condensation are likely to form or when rain is threatening. These products may be applied to damp surfaces. Excessive dampness is observed when the surface appears to shine from moisture or there is standing water. Hot rolled steel should be prepared by abrasive blast cleaning whenever possible. The inherent nature of the chemistry of these products causes the film to yellow. This yellowing process continues as the film ages and may vary with application conditions. The color drift does not detract from coating performance. These products lose gloss and chalk on exterior exposure, however, film integrity is not affected. Do not topcoat with alkyd-oil coatings. Not intended for residential use.

Product Data

Gloss:	Semi-Gloss: 20 to 25 (60°Gloss Meter)
VOC*:	2.18 lbs/gal 261.00 g/L
Coverage:	160 to 225 sq ft/gal (15 to 21 sq. m/3.78L)
<i>Note: Does not include loss due to varying application method, surface porosity, or mixing.</i>	
DFT:	5.0 minimum to 7.0 maximum
Weight/Gallon*:	11.8 lbs. (4.4 kg) +/- 0.4 lbs. (182 g)
Volume Solids*:	70.3% +/- 2%
Weight Solids*:	81.7% +/- 2%
Mix Ratio:	1 part Comp. A to 1 part Comp. B
Clean-up:	97-725,97-727,97-734 PPG Thinners

Results will vary by color, thinning and other additives.

*Product data calculated on mixed 97-948

Drying Time:

To Touch:	4 hours
To Handle:	8 hours
To Recoat:	3 hours

Dry Time @77°F (25°C); 50% relative humidity

Pot Life: 4 hours

In Service Temperature:

Dry Heat (F): 250° Dry Heat (C): 122°

Flash Point:	97-946 70°F, (21°C)
	97-949 66°F, (19°C)
	97-948 70°F, (21°C)

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.

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

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.

Recommended Primers

none Self priming on properly prepared surfaces.

Application Information

Recommended Spread Rates:

Wet Mills :	7.0 minimum to	10.0 maximum
Wet Microns:	178.0 minimum to	254.0 maximum
Dry Mills :	5.0 minimum to	7.0 maximum
Dry Microns:	127.0 minimum to	178.0 maximum

Application Equipment: Changes in application equipment, pressures 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 Fluid Pressure: Can not specify, dependent on numerous factors.

Airless Spray: Pressure 1500 psi, tip 0.017" - 0.021"

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 97-734 in warm weather.

Directions for Use

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. Read all label and Material Safety Data Sheet (MSDS) information prior to use. MSDS are available through our website or by calling 1-800-441-9695.

Permissible temperatures during application:

Material:	32 to 90°F	0 to 32°C
Ambient:	32 to 100°F	0 to 38°C
Substrate:	32 to 130°F	0 to 54°C

PPGAF believes the technical data presented in this bulletin is currently accurate; however, no guarantee of accuracy, comprehensiveness, or performance is given or implied. Improvements in coatings technology may cause future technical data to vary from what is in this bulletin. For complete, up-to-date information visit our web site or call 1-800-441-9695

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

Not all products are available in all sizes.



PITTSBURGH® PAINTS
A new generation of paint company
for a new generation.

PPG Architectural Finishes, Inc.
One PPG Place
Pittsburgh, PA 15272

www.pittsburghpaints.com

Technical Services:
1-800-441-9695
Architect/Specifier:
1-888-774-7732
International Sales:
(412) 434-2049

PPG Coatings, Inc.
Coatings and Resins Group
5546 Timberlea Blvd.
Mississauga, Ontario L4W2T7
(905) 238-6441

Bulletin: 97-946

Additional copies of this bulletin can be obtained from our web site or by calling 1-800-428-7806.

Rev. 3/2000