

**PITTSBURGH PAINTS**A new generation of paint company  
for a new generation.**PITT-GUARD®****97-145 Series****HPC/Industrial Maintenance****PITT-GUARD® Direct-To-Rust Epoxy Mastic Coatings****Generic Type**

Polyamide-Epoxy Two Component

**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  
Masonry  
Steel  
Hot Dipped Galvanized Steel

**Features / 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

**Limitations of Use**

Not intended for residential use. Apply only when air, surface and product temperatures are above 50°F (10°C) and surface temperature 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 when rain is threatening. 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.

**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.**

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**

<b>Gloss:</b>	Semi-Gloss: Typically 25 to 55 (60° Gloss Meter)
<b>VOC*:</b>	1.07 lbs/gal 128.00 g/L
<b>Coverage:</b>	195 to 272 sq ft/gal (18 to 25 sq. m/3.78L)
<i>Note: Does not include loss due to varying application method, surface porosity, or mixing.</i>	
<b>DFT:</b>	5.0 minimum to 7.0 maximum
<b>Weight/Gallon*:</b>	12.4 lbs. (5.6 kg) +/- 0.4 lbs. (182 g)
<b>Volume Solids*:</b>	84.9% +/- 2%
<b>Weight Solids*:</b>	91.4% +/- 2%
<b>Mix Ratio:</b>	1 part Component A to 1 part Component B
<b>Clean-up:</b>	97-725, 97-734 PPG Thinners

Results will vary by color, thinning and other additives.

\*Product data calculated on mixed 97-145

**Drying Time:**

To Touch:	8 hours
To Handle:	16 hours
To Recoat:	24 hours

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

<b>Pot Life:</b>	4 hours
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<b>Flash Point:</b>	97-145 106°F, (41.1°C)
	97-149 164°F, (73.3°C)

## HPC/Industrial Maintenance

## PITT-GUARD® Direct-To-Rust Epoxy Mastic Coatings

## 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.

**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) 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 and 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 Pitt-Guard D-T-R.

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

**CONCRETE:** These surfaces should be either acid etched or brush blasted prior to coating.

HPC Systems in Detail Brochure (H10788) COATING SYSTEMS: 221-HD, 224-HD, 228-HD, 230-HD, 239-HD, 241-HD, 242-HD, 243-HD, 248-HD, 249-HD, 322-HD, 323-HD, 475-HD, 477-HD. For specific recommendations, see your Pittsburgh Paints dealer or call 1-800-441-9695.

## Recommended Primers

Galvanized Steel	Self Priming
Non-Ferrous Metal	95-245
Ferrous Metal	Self Priming
Wood and Hardboard	Self Priming
Concrete, Stucco, Plaster, Masonry other than CM Uni	Self Priming
Drywall	Self Priming
Concrete Block	16-90, 97-685/97-686

## Directions for Use

Mix both components thoroughly before blending. (If 97-723 Accelerator is used, add it to the "A" Component and mix well prior to the addition of the "B" Component.) Add Component "B" to the correct Component "A" and blend well using a mechanical mixer. Bases require a 30 minute digestion time. Use of material below 60 deg F (15.5 deg C) will require a 60 minute digestion time and is not recommended.

Be sure to mix the correct A and B components:

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:	50 to 90°F	10 to 32°C
Ambient:	50 to 100°F	10 to 38°C
Substrate:	50 to 130°F	10 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

## Application Information

**Recommended Spread Rates:**

Wet Mils :	5.9	minimum to	8.2	maximum
Wet Microns:	150.0	minimum to	208.0	maximum
Dry Mils :	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:** Polyester/Nylon Brush

**Roller:** 3/8" nap solvent resistant core

**Thinning:**

Add reducer to aid mixing prior to digestion and re-stir before use.

Note, when 97-725 causes lifting 97-727 may be used when substrate temperature is below 100 deg F (37.7 deg C). It will result in a shorter pot life. Do not thin beyond regulations in VOC regulated areas.

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

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

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

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

**Packaging:** 1-Gallon (3.78L)

5-Gallon (18.9L)

Not all products are available in all sizes.



**PITTSBURGH® PAINTS**  
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for a new generation.

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

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