



HPC/Industrial Maintenance

Pitt-Tech® Int./Ext. High Gloss DTM Industrial Enamels

**GENERAL DESCRIPTION**

Pitt-Tech® High Gloss Industrial Enamels are a full line of 100% Acrylic water borne enamels designed for direct-to-metal application. These products provide corrosion protection, chemical and solvent resistance, and are fast drying with low odor. Recommended for use on properly prepared interior or exterior metal, masonry, plaster, and drywall surfaces. **For Professional Use Only; Not Intended for Household Use.**

**RECOMMENDED USES**

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

**FEATURES AND BENEFITS**

Excellent adhesion for true DTM performance in Pastel Base  
Improved color, and gloss retention versus most alkyds and two component coatings.  
High hiding  
Flash rust resistant  
Easy to apply, low odor  
Soap & water clean up  
Performance Offset to Federal Standard TT-E-2784  
Meets MPI Category #154, Interior W.B. Light Industrial Coating, Gloss, MPI Gloss Level 6  
Can earn LEED NC Version 2.2 Credits

**MIXING AND APPLICATIONS INFORMATION**

Mix thoroughly before and during use.

**Permissible temperatures during application:**

Material:	50° to 90° F	10°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:** High Quality Polyester/Nylon Brush

**Roller:** 3/8" nap roller cover

**Airless Spray:** Pressure 1500 psi, tip 0.015" to 0.017"

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

**Thinning:** Under normal conditions, thinning is not required. Water may be added at up to 6 oz. per gallon for unusual application requirements.

**TINTING AND BASE INFORMATION**

90-306	Safety Red
90-310	Safety Blue
90-311	Safety Green
90-313	Safety Orange
90-330	Safety Yellow
90-353	Black
90-374	White and Pastel Base
90-375	Midtone Base
90-376	Deeptone Base
90-377	Deep Rustic Base

**PRODUCT DATA**

**PRODUCT TYPE:** 100% Acrylic Formula  
**GLOSS:** Gloss 70 to 100 (60° Gloss Meter)  
**VOC\*:** 1.60 lbs./gal. (192 g/L)  
**COVERAGE:** 193 to 292 sq. ft./gal. (18 to 27 sq. m/3.78L)

Note: Does not include loss due to varying application method, surface porosity, or mixing.

**DFT:** 2.0 to 3.0 mils  
**WEIGHT/GALLON\*:** 10.0 lbs.(4.5 kg)+/-0.2 lbs. (91g)  
**VOLUME SOLIDS\*:** 37% +/- 2%  
**WEIGHT SOLIDS\*:** 48% +/- 2%  
**MIXED RATIO:** One Component

\*Product data calculated on mixed product.

Wet Film Thickness: 5.5 to 8.3 mils  
Wet Microns: 140.0 to 210.0  
Dry Film Thickness: 2.0 to 3.0 mils  
Dry Microns: 50.8 to 76.2  
**IN SERVICE TEMP.:** Dry Heat 250°F (121°C)

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

To Touch: 1 hour  
To Handle: 4 hours  
To Recoat: 4 hours

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

**CLEAN UP:** Soap and Water

**FLASH POINT:** Over 200°F (93°C)

**PACKAGING**

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

## GENERAL SURFACE PREPARATION

The surface to be coated must be dimensionally stable, 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. Where appropriate bare areas should be primed with a suitable primer. Pitt-Tech® Industrial Enamel Primers, 90-712 or 90-709, must be used on all bare metal substrates when using colors made from Midtone, Deeptone, and Deep Rustic bases. Remove and inhibit regrowth of mildew on exterior surfaces by using PPG Mildew Check® Multi-Purpose Wash, 18-1. Before use, be sure to read and follow the instructions and warnings on the label. **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](http://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.

**FERROUS METAL:** The recommended surface preparation is Commercial Blast Clean per SSPC-SP6. The minimum surface preparation is Hand Tool or Power Tool Clean per SSPC-SP2 or SP3.

**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 treated.

**HPC Systems in Detail Brochure (H10788) COATING SYSTEMS:** 477-HD, 478-HD, 479-HD.

## RECOMMENDED PRIMERS

Concrete, Stucco, Plaster, Masonry, other than CMU	4-603, 4-808
Concrete Masonry Units	6-15, 16-90
Drywall	6-2, 9-900, 17-921
Exterior Wood	6-609, 17-921
Aluminum	Self priming, 6-204, 90-712
Ferrous Metal	Self priming, 6-208, 7-852, 90-712
Galvanized Steel	Self priming, 6-209, 90-712

## LIMITATIONS OF USE

**For Professional Use Only; Not Intended for Household Use.** Apply only when air and surface 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 if rain is threatening. Two coats are required for maximum protection. **PROTECT FROM FREEZING.** Do not use on large wood structures or for immersion service. Excessive thinning or insufficient film thickness may cause rust staining. If rust staining occurs, apply an additional coat.

## 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](http://www.ppghpc.com) or by calling 1-800-441-9695.

PPG Architectural Finishes, Inc. believes the technical data presented 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 technical information, visit our web site or call 1-800-441-9695.



PPG Industries, Inc.  
Architectural Coatings  
One PPG Place  
Pittsburgh, PA 15272  
[www.ppghpc.com](http://www.ppghpc.com)

Technical Services  
1-800-441-9695  
1-888-807-5123 fax

Architect/Specifier:  
1-888-PPG-IDEA

PPG Architectural Finishes, Inc.  
400 S. 13th Street  
Louisville, KY 40203

PPG Canada, Inc.  
Architectural Coatings  
4 Kenview Blvd  
Brampton, ON L6T 5E4

E2 3/2008  
Supersedes (6/2007)