



HPC/Industrial Maintenance

PITT-TECH® Int/Ext High Gloss DTM Industrial Enamels

Generic Type

100% Acrylic Formula

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.

Recommended Uses

- Aluminum
- Concrete
- Drywall
- Masonry
- Metal
- Galvanized Metal

Features / Benefits

- Excellent adhesion for true DTM performance in all bases and colors
- 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

Limitations of Use

Apply only when air, product, and surface temperatures are between 50°F to 100°F (10°C - 38°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. Not recommended for 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.

Tinting and Base Information

Use PITTSBURGH® Paints Custom Colorants and refer to THE VOICE OF COLOR® electronic CD or formula book for tinting instructions.

| | |
|--------|-----------------------|
| 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

| | |
|--|---|
| Gloss: | Gloss: 80 to 100 (60° Gloss Meter) |
| VOC*: | 1.66 lbs/gal 199.00 g/L |
| Coverage: | 193 to 292 sq ft/gal (18 to 27 sq. m/3.78L) |
| <i>Note: Does not include loss due to varying application method, surface porosity, or mixing.</i> | |
| DFT: | 2.0 minimum to 3.0 maximum |
| Weight/Gallon*: | 10.0 lbs. (4.5 kg) +/- 0.2 lbs. (91 g) |
| Volume Solids*: | 36.3% +/- 2% |
| Weight Solids*: | 47.4% +/- 2% |
| Mix Ratio: | One Component |
| Clean-up: | Soap and Water |

Results will vary by color, thinning and other additives.

*Product data calculated on 90-374

Drying Time:

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

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

Pot Life: Not Applicable

Flash Point: Over 200°F, (93°C)

HPC/Industrial Maintenance

PITT-TECH® Int/Ext High Gloss DTM Industrial Enamels

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. 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, Deepstone, and Deep Rustic bases. Remove and inhibit regrowth of mildew on exterior surfaces by using Mildew Check® Multi-Purpose Wash, 18-1. Before use, be sure to read and follow the instructions and warnings on the label.

PREVIOUSLY PAINTED SURFACES: Old coatings should be tested for adhesion of the existing system.

FERROUS METAL: Remove all oil and grease from the surface by Solvent Cleaning per SSPC-SP1 and Hand Clean per SSPC-SP2 or Power Tool per SSPC-SP3 to remove loose rust, mill scale, and deteriorated previous coatings. Abrasive blasting to a minimum Commercial Grade (SSPC-SP6, NACE-3) is recommended for severe exposures. Prime as recommended above.

ALUMINUM: Remove all oil, grease, dirt, oxide, and other foreign material by Solvent Cleaning per SSPC-SP1. No primer is necessary for new aluminum surfaces. Hand Clean per SSPC-SP2 or Power Tool clean per SSPC-SP3 to remove any deteriorated previous coatings.

GALVANIZED STEEL: All stabilizers must be removed by appropriate means prior to painting. Rusty galvanized metal should be cleaned and primed as ferrous metal.

CONCRETE BLOCK: Surface should be thoroughly clean and dry. Prime bare concrete block with Pitt-Glaze® Latex Block Filler, 16-90.

CONCRETE, MASONRY, AND PLASTER: Allow new substrates to cure for 30 days and to a pH of less than 10.0 before coating. Very dense, nonporous or chemically treated concrete requires overall etching, abrasive blasting, or sanding. Weathered masonry and soft or porous cement board must be abrasive blasted or power tool cleaned and primed with Speedhide® Masonry Surface Sealer, 6-808. New cured plaster should be primed with Speedhide® Alkali Resistant Primer, 6-603.

WOOD: Surfaces must be clean, dry, and sound. Knots and resinous areas should be spot primed with shellac prior to the application of the appropriate wood primer.

DRYWALL: Clean the surface of all contaminants. If paint is peeling, clean surface to sound substrate and prime with appropriate primer.

HPC Systems in Detail Brochure (H10788) COATING SYSTEMS: 477-HD, 478-HD, 479-HD, 480-HD.

Recommended Primers

| | |
|----------------|-------------------------------|
| Plaster | 6-603 |
| Metal | 90-709, 90-712 |
| Interior Wood | 6-6, 90-709, 6-855 |
| Drywall | 6-2 |
| Exterior Wood | 1-70, 6-19, 6-809, 6-9, 6-609 |
| Concrete Block | 16-90 |

Application Information

Recommended Spread Rates:

| | | |
|--------------|------------------|---------------|
| Wet Mills : | 5.5 minimum to | 8.3 maximum |
| Wet Microns: | 140.0 minimum to | 210.0 maximum |
| Dry Mills : | 2.0 minimum to | 3.0 maximum |
| Dry Microns: | 51.0 minimum to | 76.2 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 gun, with 704 or 777 air cap with E tip and needle, or comparable equipment.

Atomization Pressure: 55-75 Fluid Pressure: Cannot specify; dependant on numerous factors.

Airless Spray: Pressure: 2000 - 2600 psi; tip 0.015 - 0.023" Hose

Brush: High Quality Polyester/Nylon Brush

Roller: 1" or 1 1/2" nap roller cover

Thinning:

Apply as received. If necessary, thin with a small amount of clean water.

Directions for Use

Mix thoroughly before and during use. 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 100°F | 10 to 38°C |
| Ambient: | 50 to 100°F | 10 to 38°C |
| Substrate: | 50 to 100°F | 10 to 38°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: 90-374

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

Rev. 3/2000