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

PITT-TECH®

90-474 Series

HPC/Industrial Maintenance

PITT-TECH® Interior/Exterior Satin DTM Industrial Enamels

Generic Type

100% Acrylic Formula

General Description

Pitt-Tech® Satin 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 & 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 (38°C - 100°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 and durability if used as a finish coat. Not recommended for immersion service. Protect from freezing. Not recommended on large wood structures. 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 to achieve hundreds of colors. Refer to THE VOICE OF COLOR® electronic CD or formula book for tinting instructions.

90-406	Safety Red
90-410	Safety Blue
90-411	Safety Green
90-413	Safety Orange
90-430	Safety Yellow
90-444	Bronze Tone
90-453	Black
90-456	Vista Green
90-474	White and Pastel Base
90-475	Midtone Base
90-476	Deeptone Base
90-477	Deep Rustic Base

Product Data

Gloss: Satin: 20 to 40 (60°Gloss Meter)
VOC*: 1.87 lbs/gal 224.00 g/L
Coverage: 200 to 303 sq ft/gal (19 to 28 sq. m/3.78L)
Note: Does not include loss due to varying application method, surface porosity, or mixing.
DFT: 2.0 minimum to 3.0 maximum
Weight/Gallon*: 10.1 lbs. (4.6 kg) +/- 0.2 lbs. (91 g)
Volume Solids*: 37.5% +/- 2%
Weight Solids*: 48.7% +/- 2%
Mix Ratio: One Component
Clean-up: Soap and Water
Results will vary by color, thinning and other additives.
*Product data calculated on White & Pastel Base

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)

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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, Deeptone, 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 stablizers 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	6-855, 17-21
Drywall	6-2
Exterior Wood	6-7, 6-12, 17-21, 6-609
Concrete Block	16-90
Concrete & Masonry	6-603

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.

Application Information

Recommended Spread Rates:

Wet Mils :	5.3	minimum to	8.0	maximum
Wet Microns:	134.6	minimum to	203.2	maximum
Dry Mils :	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 510 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 - 3000 psi, tip 0.013" - 0.015"

Brush: High Quality Polyester/Nylon Brush

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

Thinning:

Thinning is not usually required. Excessive thinning or insufficient film thickness may cause rust staining. If rust staining occurs, apply an additional coat. Do not add oils, paint thinners, or any paint additives.

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

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

Not all products are available in all sizes.

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

www.pittsburghpaintscom

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

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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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