



HPC/Industrial Maintenance

Pitt-Tech® Plus Int./Ext. Semi-Gloss DTM Industrial Enamel

**GENERAL DESCRIPTION**

Pitt-Tech® Plus Semi-Gloss Industrial Enamels are a full line of 100% Acrylic waterborne 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 colour, and gloss retention versus most alkyds, water-base and two-component systems.
- High hiding
- Flash rust resistant
- Easy to apply, low odor
- Performance Offset to Federal Standard TT-E-2784 and MIL-P-28578
- Meets MPI Category #153, Light Industrial Coating Interior W.B. Semi Gloss
- Meets MPI Category #163, Light Industrial Coating Interior W.B., Gloss, MPI Gloss Level 5
- Can earn LEED NC Version 2.2 Credits

**MIXING AND APPLICATIONS INFORMATION**

Mix thoroughly before and during use.

**Permissible temperatures during application:**

Material:	10°C to 32°C
Ambient:	4°C to 38°C
Substrate:	4°C to 49°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 1800 - 3150 psi, tip 0.013" to 0.019" Graco Ultra Max Series pumps with contractor guns or equivalent.

**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.

**Thinning:** May be reduced up to 5% by volume with water for spray application. Thinning is not usually required for brush and roll. 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.

**TINTING AND BASE INFORMATION**

Refer to the colour formula book for tinting instructions. Can be tinted with both 896 and 96 line colorants.

90-1210C	White and Pastel Base
90-1220C	Midtone Base*
90-1230C	Deeptone Base*
90-1240C	Deep Rustic Base*

\*Must be tinted before use.

**PRODUCT DATA**

<b>PRODUCT TYPE:</b>	100% Acrylic Formula
<b>GLOSS:</b>	Semi-Gloss: 40 to 60 (Gloss 60° Meter)
<b>VOC*:</b>	90 g/L
<b>COVERAGE:</b>	15 to 30 sq. m per 3.78 L
Note: Does not include loss due to varying application method, surface porosity, or mixing.	
<b>DFT:</b>	2.0 to 4.0 mils
<b>WEIGHT/GALLON*:</b>	4.61 kg +/- 91g
<b>VOLUME SOLIDS*:</b>	40.6% +/- 2%
<b>WEIGHT SOLIDS*:</b>	51.3% +/- 2%
<b>MIXED RATIO:</b>	One Component
*Product data calculated on 90-1210C.	
Wet Film Thickness:	5 to 9 mils
Wet Microns:	119 to 239
Dry Film Thickness:	2.0 to 4.0 mils
Dry Microns:	50.8 to 101.6
<b>IN SERVICE TEMP.:</b>	Dry Heat 121°C
<b>DRYING TIME:</b>	Dry time @ 25°C; 50% relative humidity.
To Touch:	15 minutes
To Handle:	30 minutes
To Recoat:	1 hour

Drying times listed may vary depending on temperature, humidity, film build, colour, and air movement.

**CLEANUP:** Soap and Water

**FLASH POINT:** Over 93°C

**PACKAGING**

3.78 L
18.9 L

## 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® Plus Industrial Enamel Primers, 90-912, 90-908, and 90-909 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 1 part chlorine bleach to 3 parts water. **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.

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

**FERROUS METAL:** Rust and other surface contaminants must be removed as per SSPC-SP2 Hand Tool or SSPC-SP3 Power Tool. Then the surface thoroughly cleaned to remove all other contaminants as per SSPC-SP1.

**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 treat the surface.

**ALUMINUM:** Solvent Clean per SSPC-SP1 to remove grease and oils.

**CONCRETE, STUCCO, PLASTER, MASONRY other than CMU:** Allow all concrete, mortar, plaster, etc. to cure for thirty (30) days under normal drying conditions. Remove all dirt, dust, grime, loose mortar and all other forms of contamination. Concrete which has been treated with curing compounds or hardeners, should be thoroughly abraded.

**CONCRETE MASONRY UNITS:** Allow the mortar to cure for thirty (30) days under normal drying conditions. Remove all dirt, dust, grime, loose mortar and all other forms of contamination.

## RECOMMENDED PRIMERS

Interior Wood	17-921C, 17-955C
Concrete, Stucco, Plaster, Masonry other than CM Unit	4-603C, 4-808C
Concrete Masonry Units	6-15C, 16-90C
Drywall	6-2C, 9-900C, 17-921C
Aluminum	6-204C, 90-712, 90-912
Exterior Wood	6-609C, 17-921C
Ferrous Metal	Self priming, 6-208C, 7-852C, 90-712, 90-912
Galvanized Steel	Self priming, 6-209C, 90-712, 90-912

For more aggressive conditions, use 97-145 series, 97-946 series or 98-46 series primers.

## LIMITATIONS OF USE

**For Professional Use Only; Not Intended for Household Use.** Apply only when air, product and surface temperatures are between 4°C - 38°C and surface temperature is at least 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 expected. Two coats are required for maximum protection and durability if used as a finish coat. Do not use on large wood structures or for immersion service. **PROTECT FROM FREEZING.** 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.

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