



HPC/Industrial Maintenance

PITTHANE® ULTRA Gloss Urethane Enamels

Generic Type

Acrylic Aliphatic Urethane

General Description

PITTHANE® Ultra Gloss Urethane Enamels are recommended as topcoats in coating systems where color and gloss retention are primary considerations. They also provide superior chemical resistance and heat resistance.

Recommended Uses

- Aluminum
- Ferrous Metal
- Galvanized Steel
- Concrete, Stucco, Plaster, Masonry
- Marine Use Above the Water

Features / Benefits

- Fully 2.08 VOC compliant
- Superior gloss and color retention
- Mar and abrasion resistant
- Superior chemical resistance
- Surpasses Level 3 of SSPC-36 paint specification
- Meets MPI Category #78, 2 Component Aliphatic Polyurethane, Clear
- Meets MPI Category #83, 2 Component Polyurethane Non-Slip Coating

Limitations of Use

Apply only when air temperature is 40°F (4°C) or higher and when surface temperature is at least 5°F (3°C) above the dew point. The solvents contained in these products can lift some alkyd, oil based and other coatings that are not resistant to strong solvents. A test patch application is recommended. Not recommended for dimensionally unstable substrates, such as large expanses of wood, or for immersion service. Do not apply to concrete surfaces below grade or in other applications where hydrostatic pressure is present. Not intended for residential use. Color begins to change at 275°F (135°C). Drying times listed may vary depending on temperature, humidity, color and air movement. For Professional Use Only; Not Intended for Household Use.

Tinting and Base Information

These products are designed to be tinted with PERFORMACOLOR® colorants. Use formulas from the PITTHANE Ultra section of the formula book or from the PERFORMACOLOR Software. Do not tint with 96 line custom colorants.

95-8000	Neutral Base
95-8001	White Base
95-8002	Yellow Base
95-8003	Red Base
95-801	Safety Red
95-802	Safety Yellow
95-805	Safety Orange
95-812	Porcelain White
95-814	Black
95-819	Component B Catalyst

Product Data

Gloss:	Gloss: +70 (20° Gloss Meter)
VOC*:	2.01 lbs/gal 241.00 g/L
Coverage:	376 to 565 sq ft/gal (35 to 52 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*:	11.6 lbs. (5.3 kg) +/- 0.3 lbs. (136 g)

Volume Solids*: 70.4% +/- 2%

Weight Solids*: 82.7% +/- 2%

Mix Ratio: 5 parts Component A to 1 part Component B

Clean-up: 97-727, 97-730, 97-734, 97-735, 97-736, 97-739
PPG Thinners

Results will vary by color, thinning and other additives.

***Product data calculated on mixed 95-812**

Drying Time:

To Touch:	2 hours
To Handle:	4.5 hours
To Recoat:	4.5 hours
Accelerated Potlife:	1 hour
Accelerated Handle:	30 minutes
Accelerated Recoat:	30 minutes

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

Pot Life: 3 hours

Induction Time: None

In Service Temperature:

Dry Heat (F): 350° Dry Heat (C): 177°

Flash Point: 95-812 84°F, (28.9°C)
95-819 331°F, (166°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. Job conditions may dictate the choice of an alternate primer. Consult PPG HD systems or your PPG Sales Representative if this is the case. **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. 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 and lifting by the proposed topcoat.

COATING SYSTEMS: 241-HD, 242-HD, 243-HD, 245-HD, 246-HD, 247-HD, 248-HD, 249-HD.

Recommended Primers

Galvanized Steel	97-145, 97-946
Concrete, Smooth Masonry	97-145, 97-946
Ferrous Metal	97-680, 97-145, 97-946
Aluminum	97-687
See Surface Prep Section	Refer to HD Coating Systems.

Application Information

Recommended Spread Rates:

Wet Mills :	2.8 minimum to	4.3 maximum
Wet Microns:	71.1 minimum to	109.2 maximum
Dry Mills :	2.0 minimum to	3.0 maximum
Dry Microns:	50.8 minimum to	76.2 maximum

Directions for Use

Mix Component "A" thoroughly before blending. (If 97-722 Accelerator is used, add it to the "A" Component and mix well prior to the addition of the "B" Component. Add up to 6 oz. of 97-722 per mixed gallon). Add Component "B" to Component "A" and mix well. A mechanical mixer is recommended. Explosion-proof equipment must be used when coating with these materials in confined areas. Keep containers closed and away from heat, sparks, and flames when not in use. **USE WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN.** 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:	60 to 90°F	16 to 32°C
Ambient:	40 to 100°F	4 to 38°C
Substrate:	40 to 140°F	4 to 60°C

Application Equipment: Changes in application equipment, pressures and/or tip sizes may be required depending on ambient temperatures and application conditions. 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.

Conventional Spray: Fluid Nozzle: DeVilbiss MBC gun, with 777 or 78 air cap with E or F tip and needle, or comparable equipment. Atomization Pressure: 55 - 70 Fluid Pressure: (Can not specify, dependent on numerous factors)

Airless Spray: Pressure 1800 psi, tip 0.013" - 0.015"

Brush: High Quality Natural Bristle Brush

Roller: 3/8" nap solvent resistant core

Thinning:

For a 2.8 lb/gal (340 g/L) VOC, do not exceed 15% thinning. Use 97-739 to obtain a 2.08 (250 g/L) VOC. Use 97-739 for normal application. 97-735 thinner can be added for normal brush, roll, or spray application. Use 97-736 for a faster solvent. 97-735 and 97-736 increase the conductivity of the mixed paint. May use 97-730 or 97-727 for spray, 97-734 for brush or roller.

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

Quart (946 mL)

Not all products are available in all sizes. All containers are not full-filled.

PPGAF 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.



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