

PRO TECH™

PRODUCTION PAINT COATINGS

PRODUCT DATA

POLY PROTHANE™ Polyurethane Enamel 5500-series

modified polyester urethane

PRODUCT DESCRIPTION

TYPICAL USES

PRODUCT ADVANTAGES

COLORS

GLOSS

PHYSICAL CONSTANTS

APPLICATION

SHIPPING & STORAGE

A two component, high solids, high gloss, low VOC, aliphatic modified polyester polyurethane coating.

For industrial and commercial use as a high performance protective maintenance coating for industrial plants, mills, chemical processing plants, refineries, buildings and marine structures. For coating and protection of storage tanks, piping, roof decks, water towers, structural steel, equipment, marine vessels, offshore structures, and other surfaces exposed to humidity, chemicals and corrosive environments.

Poly ProThane Polyurethane Enamel provides excellent protection in exposures including moderate to severe industrial, commercial and marine environments. Excellent resistance to fresh and salt water, detergents and most chemicals. Very good resistance to fumes and spillage of most organic solvents, acids, and alkalis (not recommended for immersion). Excellent abrasion and moisture resistance. Exceptional gloss and color retention on exterior exposure. Temperature resistant to 250°F.

Black 107, White 161, Safety Red 715, Safety Yellow 510. Mixing bases also available. Special colors available subject to minimum order.

High Gloss

Nonvolatile - By weight - 61.9 ± 2.0% *
By volume - 51.6 ± 2.0% *

VOC (Calculated) 3.5 lbs./gal.
420 grams/liter

Flash Point - (A) 80°F (B) 80°F(setaflash)

Mixing Ratio - 4:1 by volume

Weight per gallon - (A) 9.4 ± 0.2 lbs. *
(B) 8.5 ± 0.2 lbs.

* varies slightly with color

Recommended Film Thickness per coat - 2.5 mils dry, 4.8 mils wet

Theoretical Coverage @ 2.5 mils dry - 331 sq. ft./gal.

Method - Conventional or Airless spray

Induction time - None

Pot Life @ 75°F - 4 hours minimum

Thinner - Urethane Thinner 916, 917 or 918 (Refer to thinning on back)

Cure time @ 75°F - To touch - 1 hour
To handle - 2 hours
To recoat - 12 hours

Consists of -	1 Gallon Unit	5 Gallon Unit
Part (A) 5500-series	1 gallon (SF)	5 gallons (SF)
Part (B) 5500-255	1 quart (SF)	1 gallon
Unit Shipping Weight - (SF) - Short filled	11 lbs.	52 lbs.

Shelf Life - 12 months minimum from date of manufacture when maintained in protected storage @ 40-100°F (subject to reinspection thereafter).

APPLICATION INSTRUCTIONS

Consult your Mobile Paint Pro Tech Representative for the protective coating system best suited for your requirements.

Limitations - Apply in good weather when air and surface temperature are above 50°F and surface temperature is at least 5°F above the dew point. Humidity must be below 90%. Conditions should be within these limits for the full curing time of the coating. Conditions of high humidity and/or low temperatures, especially with moisture condensing on the uncured paint film, will adversely affect the curing and gloss of the coating. For optimum application properties, material should be between 70°F to 100°F prior to mixing and application. Maintain unmixed material in closed containers in protected storage at 40-100°F.

Surface Preparation - Good surface preparation is essential to a satisfactory coating system. Surfaces to be coated should be clean and dry. Remove all oil, grease, mildew or other contamination by solvent or detergent cleaning or other effective methods.

New or Unfinished Surfaces : Ferrous Metal: Follow preparation guidelines for recommended primer. Prime with Armor Tech Epoxy Primer 1600. **Galvanized Metal:** Remove oil and prime with Vinyl Wash Primer. **Concrete:** Follow preparation guidelines for recommended primer. Prime with Armor Tech Epoxy Primer 1600. **Aluminum:** Follow preparation guidelines for recommended primer. Prime with Armor Tech Epoxy Primer 1600.

Previously Finished Surfaces: Repair all damaged areas. Remove gloss from previous paint by sanding or "Brush Blasting" (SSPC-SP7). Remove rust, corrosion products, heavy chalk and loose or peeling paint by "Hand or Power Tool Cleaning" (SSPC-SP2 or -SP3). Spot prime any bare areas as in new work above. If doubt exists concerning compatibility of this coating with the previous system, apply coating to a representative area (25 square feet minimum) and allow to cure and age several weeks. Then inspect for adhesion failure, wrinkling, lifting, blistering or any other sign of incompatibility. If there are no signs, coating work can proceed.

Tinting: Special Tint Bases are available for use with the Industrial Tinting System and should be used only after the addition of the proper amount of Industrial colorant. These Tint Bases may be short filled to allow for the addition of colorant. Actual coverage will depend on the amount of colorant added and should be taken into consideration when ordering. Some colors may require more than one coat for complete hiding. **DO NOT TINT WITH UNSPECIFIED UNIVERSAL COLORANTS.**

Mixing - Poly Prothane is supplied in 2 containers. Always mix a complete unit in the proportions supplied. (1) Agitate Part A with power agitator (2) Combine entire contents of Part A and Part B and mix thoroughly with power agitator. Usable pot life depends on the temperature of the material. Refer to Pot Life section on front page.

Thinning -Material is supplied at airless spray viscosity and should not require thinning. Clean Air Regulations may not allow thinning of this product for certain uses. Do not thin beyond applicable regulations. If thinning is allowed, use Urethane Thinner 916, 917 or 918. The use of non-specified thinners may render this product useless.

Application - This product is designed for application by airless spray. Conventional spray is also acceptable. Brush and roller application is considered for touch up of small areas. Apply 4.8 mils wet film thickness which will yield 2.5 mils dry film thickness.

Equipment - Airless Spray - Minimum of 30:1 ratio pump, .011"-.013" tip, 3/8" ID material hose. Conventional spray - DeVilbiss MBC gun with E tip and needle and 30 air cap or equivalent at 35-45 psi atomizing pressure and 7-10 psi pot pressure, 3/8" ID product hose, double regulated pressure tank with oil and moisture separator. Roller - High quality all purpose roller with 1/4" nap maximum. Brush - High quality bristle brush only.

NOTE: During lunch, breaks or any period of work stoppage, material should be removed from hoses and equipment. Release pressure from equipment and flush hoses and equipment with Urethane Thinner 916, 917 or 918. Do not repressurize equipment until ready to resume work.

Cleanup - Clean all equipment immediately after use with Urethane Thinner 916, 917 or 918 or MIBK. Completely flush all spray equipment with either of these solvents. Occasional flushing of spray equipment during the course of the working day helps prevent buildup and possible clogging.

Safety - Safe storage, handling and use dictate that adequate health and safety precautions be observed with this product and any recommended thinners. User is specifically directed to consult the current Material Safety Data Sheet for this product as well as precautions contained on product labeling.

Notice - The technical data contained herein are true and accurate to the best of our knowledge. All products are offered and sold subject to Mobile Paint Manufacturing Company's Standard Conditions of Sale. Published technical data and instructions are subject to change without prior notice.

PolyProthane5500 (4/04)

LIMITED WARRANTY

The successful performance of this product is highly dependent on many factors beyond our control. Results are highly dependent upon the skill of the operator. This product is manufactured to meet the highest level of consistency and quality for the intended use. Mobile Paint warrants that its products meet the specifications which it sets for them. Should this product be proven to be off-specification within one year from date of shipment, Mobile Paint will, at its sole discretion, either replace the product or issue credit for the original purchase price of the product. The replacement or refund shall be the buyer's sole remedy and Mobile Paint and its affiliates **MAKE NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY, DESIGN COMPATIBILITY AND FITNESS FOR A PARTICULAR PURPOSE. LABOR OR COST OF LABOR AND OTHER INCIDENTAL AND/OR CONSEQUENTIAL DAMAGES ARE SPECIFICALLY EXCLUDED.** The technical data contained herein are true and accurate to the best of our knowledge. Published technical data and instructions are subject to change without prior notice.