



PM-5000AC

AIRCRAFTHANGAR COATING SYSTEM

PRODUCT DATA SHEET

PRODUCT DESCRIPTION

PolyMax 5000 Aircraft Hangar Floor Coating System is comprised of a Unique Penetrating Polymer Primer, an Epoxy Binder Coat and a Special UV/Chemical Resistant Urethane Finish. Both the epoxy and urethane are fully pigmented, high build coatings designed to be used where chemical, impact and abrasion resistance is paramount. The Chemical Resistant Urethane finish is impervious to ultra violet attack and most common chemicals, including skydrol jet fuel and brake fluid. The 5000 Series Urethane maintains its gloss and color far longer than conventional coatings.

Although inherently slip resistant, varying levels of additional skid resistance can be obtained by adding aggregate to the intermediate coat. When properly installed at 20-24 mils, it will outperform normal floor paints 10 times or more.

TYPICAL USE

Versatile **PM-5000 AC** is typically used as an air craft hangar coating, but it is also ideal for automotive repair shops, chemical processing areas, high traffic warehouses, loading docks, or any heavy duty industrial use where the substrate is sound and smooth.

Its light reflective finish can substantially reduce lighting and maintenance costs, so **PM-5000 AC** is also ideal for most commercial, institutional or industrial applications where a monochromatic finish with superior durability is required.

FEATURES

- Long Lasting Finish
- Easy to Clean and Maintain
- Excellent Light Reflectivity
- Low VOC
- Excellent Gloss Retention
- Excellent Chemical Resistance
- Excellent Abrasion Resistance
- Excellent Ultra Violet Resistance

INSTALLATION

The performance of any floor coating is highly reliant upon proper preparation of the substrate. Substrate must be free of all contamination such as latence, curing compounds, sealers, paint, dirt, oil and grease. Concrete should be lightly shot blasted, but acid etching and neutralization to a smooth even finish (similar in texture to 100 grit sand paper) is acceptable. Prime area with **PM-100** Penetrating Primer at a minimum of 8 mils, dry film thickness, if required.

PM-200 Epoxy binder coat is normally squeegeed and back rolled at a minimum of 8 mils, dry film thickness. Once tack free, the **PM-500** Urethane is then applied at a minimum of 4 mils, dry film thickness. (**PM-500** Urethane finish can also spray applied. Contact **Tele-Tech at 1-800-459-7659** for assistance and equipment suggestions)

PACKAGING

The components of the **PM-5000 AC** system are normally packaged in 5 gallon pails. Special orders for larger or smaller packaging size is available by special order.

CAUTION

PM-5000 AC Coating System is intended for use by professional applicators. Although safe if properly handled, all personnel who are exposed to any chemical must read and completely understand precautions and warnings on label and MSDS prior to use.

STORAGE

For best shelf life, store in a dry area at temperatures between 50° F and 90° F. Protect product from freezing. Minimum shelf life is one year from date of manufacture when properly stored.

LIMITATIONS

Avoid on or below grade applications where water vapor transmission is greater than 5 lbs./1000 sq. ft. per 24 hrs. unless pre-approved in writing by manufacturer, where ambient operating temperatures exceed 170° F or application temperatures will be below 55° F or above 90° F. All open foods must be removed from area during installation. Adequate ventilation must be available during installation. Vehicles with rubber tires should not be parked on coating within 36 hours of installation.

COMPLIANCES

The urethane finish coat for the **PM 5000 AC System** is compliant with most states volatile organic compound requirements but be sure to consult your states specific requirements before use. Lower V.O.C. components are also available where required.

CHEMICAL RESISTANCE

The **PM 5000** Urethane is the exposed finish and is very resistant to most common industrial chemicals and solvents. An abbreviated list follows. For more comprehensive chemical resistance analysis, contact **Tele-Tech at 1-800-459-7659**.

REAGENT	30 MIN.	24 HRS.	7 DAYS
Acetone	N	N	F
Acetic Acid	N	D	F
Acetic Acid (20%)	N	N	N
Ammonium Hydroxide (20%)	N	N	N
Clorox	N	N	N
Ethylene Glycol	N	N	N
Gasoline	N	N	N
JP 4 - JP5 Jet Fuel	N	N	N
Lactic Acid (85%)	N	N	N
Mineral Spirits	N	N	N
Nitric Acid (10%)	N	N	N
Nitric Acid (40%)	N	N	N
Phosphoric Acid (70%)	D	D	D
Skydrol #5000	N	N	N
Sodium Hydroxide (30%)	N	N	D
Sulfuric Acid (45%)	N	N	N
Toluene	N	N	N

N = NO ATTACK D = DISCOLORED F = FAILED

Physical Property	Test	Result
Tensile Strength	ASTM D-638	5,300 psi
Flexural Strength	ASTM C-580	5,351 psi
Bond Strength	ASTM D-4541	> 300 psi
Linear Shrinkage	ASTM C-883	nil
Hardness, Shore D	ASTM D-2240	84 @ 75° F
Water Absorption	ASTM C-413	0.009%
Flammability	MIL-D-3134F	Fire Retardant
Indentation	MIL-D-3134F	nil
Elongation	ASTM D-638	2.1%
Elongation, Topcoat	ASTM D-638	18%

Actual test results may vary due to the use of various aggregates, application methods and floor finish. The foregoing test results are based upon laboratory prepared samples and results may vary if not prepared by a professional technician.

AVAILABILITY

PolyMax products are available only through selected and approved applicators and distributors. This material is intended for commercial and industrial installations and should be installed by skilled, seamless flooring technicians. It is neither designed for nor available for consumer use.

Custom design assistance may be obtained by contacting **PM Tele-Tech at 1-800-459-7659** 8:00 AM through 4:00 PM Central time.

COLOR SELECTION

Standard colors are White, Gray, Dark Gray, Tile Red and Mocha. Custom colors are available in 250 gallon minimums at additional charge

CAUTION:

COMPONENTS OF OR PRODUCTS USED WITH AND DURING THE INSTALLATION OF POLYMAX COATING PRODUCTS MAY INCLUDE HAZARDOUS MATERIALS.

All personnel exposed to or handling materials before and during installation must read and fully understand label precautions and Material Safety Data Sheets.

LIMITED WARRANTY

POLYMAX COATINGS are manufactured to meet the highest level of consistency and quality for their intended use. All materials are warranted to meet the physical properties as listed above. Should any POLYMAX COATING be proven to be defective within one year of the date of shipment, the material will be either replaced or at our discretion, a credit for the full purchase price will be issued. The successful performance of seamless flooring is highly dependent upon many factors beyond our control. Therefore, except for such replacement or refund POLYMAX and it's affiliates MAKE NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS, DESIGN COMPATIBILITY OR MERCHANTABILITY, RESPECTING ITS COATINGS. Other than that stated in the foregoing, POLYMAX and its affiliates shall have no other responsibility or liability, including direct and/or indirect and/or consequential damages and/or damages from delay and/or damages to any third party with respect to the use of it's materials. Claims regarding product quality must be received in writing within 30 days of discovery of defect.

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