

## Product Data Sheet

### PRODUCT DESCRIPTION

**Milamar PM5000AC** Aircraft Hangar Floor Coating System is comprised of a Penetrating Polymer Primer, an Epoxy Binder Coat and a 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 are paramount. The Chemical Resistant Urethane finish is impervious to ultraviolet attack and most common chemicals, including skydrol 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 epoxy binder coat. When properly installed at 20-24 mils, this intermediate coat will outperform normal floor paints 10 times or more.

### TYPICAL USE

**PM5000AC** is typically used as an aircraft hangar coating. 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.

The light reflective finish of **PM5000AC** can substantially reduce lighting and maintenance costs. This system is ideal for most commercial, institutional or industrial applications requiring a monochromatic finish with superior durability.

### FEATURES

- Long-lasting Finish
- Easy to Clean and Maintain
- Excellent Light Reflectivity
- Excellent Gloss Retention
- Excellent Chemical Resistance
- Excellent Abrasion Resistance
- Excellent Ultraviolet 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 latex, curing compounds, sealers, paint, dirt, oil and grease. Concrete should be lightly shot blasted or acid etched and neutralized

to a smooth even finish (similar in texture to 100 grit sand paper). Prime area with **Primer LV** Penetrating Primer at a minimum of 8 mils dry film thickness.

**PM200** Epoxy binder coat is normally squeegeed and back rolled at a minimum of 8 mils dry film thickness. Once tack free, **PM500** Urethane is then applied at a minimum of 4 mils dry film thickness. (**PM500** Urethane finish can also spray applied. Contact **Tele-Tech at 1-800-459-7659** for assistance and equipment suggestions)

### PACKAGING

The components of the **PM5000AC** system are normally packaged in 5 gallon pails. Special orders for larger or smaller packaging size are available.

### CAUTION

**PM5000AC Coating System** is intended for use by professional applicators. Although safe if properly handled, all personnel who may be exposed to any chemical must read and completely understand precautions and warnings on label and MSDS prior to use.

### STORAGE

Store in a dry area at temperatures between 50° F and 90° F. Protect product from freezing. When properly stored, minimum shelf life is one year from date of manufacture.

### 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. Avoid ambient operating temperatures exceeding 170° F. Avoid application temperatures 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 **PM5000AC System** is compliant with most state volatile organic compound requirements. For verification, consult your state's specific requirements before use. Lower V.O.C. components are also available where required.

## CHEMICAL RESISTANCE

The **PM5000AC** 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**.

<b>REAGENT</b>	<b>30 MIN.</b>	<b>24 HRS.</b>	<b>7 DAYS</b>
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, JP8 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

<b>Physical Property</b>	<b>Test</b>	<b>Result</b>
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
Abrasion Resistance	ASTM D-4060	51 mg loss
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

**Milamar** 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 **Milamar Tele-Tech at 1-800-459-7659** 8:00 AM through 4:00 PM Central time.

## COLOR SELECTION

Standard colors are Bright White, 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 MILAMAR COATINGS 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

Milamar Coatings products are manufactured to be free of defects in material and workmanship in meeting the properties specified on its individual Product Data Sheets. Users and installers of Milamar Coatings products are solely responsible for determining the suitability of the products for specific product applications. Milamar Coatings makes no Warranty or Guarantee, express or implied, including warranties of fitness, design compatibility or merchantability, for any particular use and shall have no responsibility or liability, including direct, indirect or consequential damages, due to injury, delay or third party claims for installation or repair. Likewise, Milamar Coatings assumes no liability of any nature for products that are adjusted in the field or that do not utilize all specified Milamar Coatings components. Should any Milamar Coatings product be proved to be defective within one year from the date of shipment, Milamar Coatings will, at its sole discretion, either replace the material; issue a credit to the customer's account; or provide a cash refund for the initial, paid purchase price of the material. Potential claims regarding product quality must be received in writing by Milamar Coatings within 30 days of the discovery of such potential defect. This Warranty is exclusive of all other warranties, expressed or implied, and may only be adjusted in writing, signed by an officer of Milamar Coatings, L.L.C.

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