

Product Data Sheet

PRODUCT DESCRIPTION

Milamar PM500 Chemical Resistant Urethane Coating is an aliphatic, high build urethane, designed to be used where chemical, impact and abrasion resistance is paramount. It is virtually impervious to ultra violet attack and most common chemicals, including skydrol and brake fluid. The 500 Series urethane maintains its gloss level far longer than conventional coatings.

Varying levels of skid resistance can be obtained by adding slip resistant aggregate to the finish. When properly installed at 8 to 16 mils, it can out wear normal floor paints 10 times or more.

TYPICAL USE

Versatile **PM500** is typically used as a heavy duty industrial coating over primed concrete or as a gloss retentive finish coat for an epoxy mortar or broadcast floor.

Install **PM500** in automotive repair shops, aircraft hangars, chemical processing areas, high traffic warehouses, loading docks, or as an extra durable maintenance finish on **Milamar** seamless floors in commercial kitchens, customer waiting rooms, lockers or showers.

FEATURES

- Top Quality Formulation
- Long Wearing Gloss Finish
- Variety of Finished Textures
- Clear and Pigmented Versions
- Excellent Gloss Retention
- Very Good Chemical Resistance
- Excellent Abrasion Resistance
- Excellent Ultra Violet Resistance

INSTALLATION

The performance of any coating is highly reliant upon proper preparation of the substrate. Substrate must be free of all contamination such as laitance, curing compounds, dirt, oil and grease. Concrete should be lightly shot blasted, diamond ground or acid etched and neutralized to a smooth, even finish, similar in texture to

100 grit sand paper. Prime area with Milamar moisture tolerant epoxy primer. The **PM-500** urethane system develops adhesion properties stronger than concrete when substrate is properly prepared.

PM500 coating is normally either rolled or squeegeed and back rolled. If a slip resistant finish is required, the appropriately sized aggregate can be pre-mixed with the A and B components or it may be broadcast into the previous coat and locked in with **PM500** finish.

PACKAGING

PM500 is normally packaged in 3 gallon kits and 15 gallon units.

STORAGE

For best shelf life, store **PM500** 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. or where ambient operating temperatures exceed 180° F. Ideal application temperatures are above 60° F or below 85° F. All open foods must be removed from area during installation. Adequate ventilation must be available during installation and cure. Vehicles with rubber tires should not be parked on coating within 72 hours of installation.

COLOR SELECTION

PM500 is available in clear and pigmented versions. Standard colors are White, Gray, Dark Gray, Tile Red and Mocha. Custom colors are subject to minimum quantities and additional charge.

COMPLIANCES

PM500 urethane coating is compliant with most states volatile organic compound requirements but be sure to consult your states specific requirements before use. Lower V.O.C. urethanes are also available from **Milamar Coatings** where required.

REAGENT	30 MIN.	24 HRS.	7 DAYS
Acetone	N	N	F
Acetic Acid	N	D	F
Acetic Acid (20%)	N	N	N
Ammonium Hydroxide (30%)	N	N	N
Chlorine (5,000 ppm in water)	N	N	N
Citric Acid	N	N	N
Clorox	N	N	N
Ethylene Glycol	N	N	N
Gasoline	N	N	N
Hydrochloric Acid 32%	N	N	N
Isopropyl Alcohol (98%)	N	N	N
Mineral Spirits	N	N	N
Nitric Acid (10%)	N	N	N
Nitric Acid (40%)	N	N	N
Phenol	N	N	N
Skydrol #500	N	N	N
Sodium Chloride	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	> 350 psi
Linear Shrinkage	ASTM C-883	nil
Hardness	ASTM D-2240	72 @ 75° F
Water Absorption	ASTM C-413	0.009%
Flammability	MIL-D-3134F	Fire Retardant
Abrasion Resistance	ASTM D-4060	51 mg loss
Indentation Solids	MIL-D-3134F	nil 65%
Elongation	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 coating 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.

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.

Milamar Coatings, LLC.
www.milamar.com
311 NW 122nd Street, Ste. 100
Oklahoma City, OK 73114
Ph.: 405.755.8448
Fax: 405.755.8450