

Product Data Sheet

PRODUCT DESCRIPTION

Milamar 300 Heavy Duty Epoxy Coating is a cycloaliphatic amine cured, pigmented high build epoxy, designed to be used where extra chemical, impact and abrasion resistance is required. Used primarily in heavy industrial and commercial applications, it can be applied with a smooth, high gloss finish or it can be combined with various aggregates to obtain virtually any level of slip resistance required.

This specially formulated epoxy exhibits excellent chemical, abrasion and impact resistance and excellent color retention. When properly installed at 8 to 16 mils, it will out wear normal floor paints up to 10 times

TYPICAL USE

Versatile **PM300** can be used as a heavy duty epoxy floor coating over concrete or steel, a finish coat for an epoxy mortar or broadcast overlay, or a primer/color coat for **Milamar Specialty Urethane** finishes.

PM300 epoxy coating is commonly installed in chemical processing areas, high traffic warehouses, loading docks, chemical laboratories, printing plants and machine shops.

Use **PM300** anywhere a top quality, chemical and abrasion resistant finish is required.

FEATURES

- Top Quality Formulation
- Economical Price - Longer Lasting
- Easy to use - 2 to 1 Mix Ratio
- Variety of Finishes
- Low VOC
- Fast Curing
- Very Good Chemical and Abrasion Resistance
- Good Impact 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 laitence, curing

compounds, dirt, oil and or rust scale. Steel must be brush blasted to white metal. 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. Primers are necessary only when the substrate is porous. **PM300** epoxy develops adhesion properties stronger than concrete when substrate is properly prepared.

PM300 epoxy coating is normally either rolled or squeegeed and back rolled. If a slip resistant finish is required, the appropriate aggregate can be broadcast on the surface once the coating has been applied. It is then locked in with subsequent coat(s).

PACKAGING

Packaged in 15 gallon units or 3 gallon kits.

STORAGE

For best shelf life, store **PM300** epoxy 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 square foot per 24 hours or where ambient operating temperatures exceed 170°F. Apply at air temperatures above 60°F and below 90°F. Material temperature should be above 68°F for best workability. **PM300 Epoxy Coating** is not designed for exterior use or constant exposure to direct sun light.

COLOR SELECTION

Standard colors are Gray, Dark Gray, Tile Red, White and Mocha. Custom colors are subject to minimum quantities and additional charge.

COMPLIANCES

PM300 is compliant with EPA architectural coatings volatile organic compound (VOC) rule and local air quality standards but as standards change, be sure to consult your states specific requirements before use.

CHEMICAL RESISTANCE

PM300 Epoxy 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	F	F
Acetic Acid	N	D	F
Acetic Acid (50%)	N	N	N
Ammonium Hydroxide (28%)	N	N	N
Clorox	N	N	N
Ethylene Glycol	N	N	N
Gasoline	N	N	N
Isopropyl Alcohol (98%)	N	N	N
Mineral Spirits	N	N	N
Nitric Acid (10%)	N	N	D
Nitric Acid (50%)	D	D	D
Skydrol #500	N	N	N
Sulfuric Acid (45%)	N	N	D
Sulfuric Acid (90%)	F	F	F
Sodium Hydroxide(30%)	N	N	N
Toluene	N	N	N
Urine-Synthetic (6.6%)	N	N	N

N = NO ATTACK D = DISCOLORED F = FAILED

Physical Property	Test	Result
Compressive Strength	ASTM C-579	12,900 psi
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	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%
VOC, mixed		75.6

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.

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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