

## Product Data Sheet

### PRODUCT DESCRIPTION

**PM550** is low VOC, aliphatic urethane coating, which exhibits exceptional properties previously unavailable with waterborne products. **PM550** meets the performance standards, including abrasion and impact resistance of traditional solvent based industrial urethane floor coatings. **PM550** is low odor and is easy to install.

Due to its unique ability to allow vapor emission, **PM550** in conjunction with **PM400** can be installed on or below grade and even in exterior applications. **PM550** can also be applied to vertical surfaces and will adhere to properly prepared metal surfaces such as structural steel, steel pipes and steel tanks. **PM550** is fully resistant to all common automotive and aviation fluids, salt and chemical deicers. It is ideal for basements, recreation rooms and as a durable shop floor topcoat. Also excellent as an economical T-hangar coating topcoat when used with **PM400**.

### TYPICAL USE

**PM550** is primarily used as a finish coat for **PM400** and a clear finish for the decorative color chip floor system. **PM550** can also be use with traditional PolyMax systems as a low odor, low VOC urethane finish or as a high end sealer for interior stained concrete. When used as a finish coat over **PM400** it has the ability to relieve moisture vapor emission up to 10 pounds/1000 square feet per 24 hours. See **PM400** product data sheet. Choose **PM550** to reduce staining, increase abrasion resistance, brighten floors and lower maintenance in warehouses, manufacturing areas and machine shops.

### FEATURES & BENEFITS

- Exceptional Chemical, Abrasion & Impact Resistance
- Low Odor Aliphatic Waterborne Urethane
- Low VOC, Under 6 Grams Per Liter
- Easy To Apply With Long Pot Life
- May Be Used Below Grade
- Available in Gloss or Flat Finish
- Breathable

### COMPLIANCES

**PM550** is compliant with EPA's national Volatile Organic Compound (VOC) AIM rule and South Coast Air Quality Management District Rule 1113.

### 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 laitance, curing compounds, dirt, oil and grease. Concrete should be diamond ground to a smooth, even finish similar to 100/150 metal bonded diamonds or CSP 1 profile. On exterior surfaces, previously coated or questionable substrates contact manufacturer.

Both waterborne or high solids epoxy primer or base coat should be tack free before applying **PM550**. **PM550** Coating is applied by roller using a 3/8" nap cover at a rate of 5 wet mils or 320 square feet per mixed gallon. **PM550** has a pot life of 1 hour with a recoat time of 9 hours. For stained or dyed concrete, apply one coat **DE-400C** Clear epoxy, allow to fully dry before applying **PM550**. (Contact Tele-Tech at 1-405-755-8454 for assistance in determining required thickness preparation and application methods)

### PACKAGING

**PM550** in both gloss and flat finishes are packaged in 1 gallon and 4 gallon kits. Recommended coverage is 320 square feet per mixed gallon.

### STORAGE

For best shelf life, store **PM550** in a dry area at temperatures between 50° F and 90° F. Protect product from freezing. Minimum shelf life is six months from date of manufacture, when properly stored.

### LIMITATIONS

Avoid use where ambient operating temperatures exceed 200°F. Ideal application temperatures are above 65°F and below 90°F with under 75% relative humidity. Do not install greater than 6 wet mils as it will affect the aesthetics of the film.

## CHEMICAL RESISTANCE

Unlike conventional waterborne or emulsion urethanes, **PM550** is far more resistant to most common industrial chemicals and solvents as well as impact and abrasion. An abbreviated list of chemical resistance and physical properties follows. For more comprehensive chemical resistance analysis, contact Tele-Tech at 1-800-459-7659.

REAGENT	30 MIN.	24 HRS.
Acetic (20%)	N	N
Acetone	N	N
Ammonium Hydroxide (28%)	N	N
Battery Acid	N	N
Betadine	N	N
Brake & Hydraulic Fluid	N	N
Clorox	N	N
Gasoline	N	N
Hydrochloric (10%)	N	N
Isopropyl Alcohol (98%)	N	N
Mineral Spirits	N	N
Motor Oil	N	N
Nitric Acid (20%)	N	N
Skydrol	N	N
Sodium Hydroxide (50%)	N	N
Sodium hypochlorite (10%)	N	N
Sulfuric Acid (50%)	N	N

N = NO ATTACK      D = DISCOLORED      F = FAILED

Physical Property		
Percent Solids	By volume	52%
Recommended		5 mils
Wet Film Thickness		
Pot Life	75° F & 50% RH	1 hour
Recoat Time	75° F & 50% RH	9 hours
Mix Ratio		3:1, A to B
Bond Strength	ASTM D-4541	>300 psi
Linear Shrinkage	ASTM C-883	Nil
Hardness, Shore D		73
Indentation	MIL-D-3134F	No Chipping or Cracking
Elongation	ASTM D-638	35%
Abrasion Resistance	ASTM D-4060	33 mg loss
Mixed VOC		6 grams/liter

**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.**

## COLOR SELECTION

Available in clear. 22 standard colors available with lead time. Custom colors are subject to minimum quantities and 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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