

Product Data Sheet

PRODUCT DESCRIPTION

Milamar 100 Series is comprised of a water clear or tinted, moisture insensitive, multipurpose epoxy that can be used with various aggregates. Designed to be extremely versatile, it can be used in troweled epoxy mortars, self-leveling and broadcast flooring systems. This specially formulated epoxy has very good chemical resistance, excellent abrasion and impact resistance and excellent color stability.

A variety of hardeners allow **PM100 Series** to be installed under most environmental conditions. Fast cure hardeners return the floor to service in under 24 hours. Slower cure hardeners are used in high temperature applications. All hardeners are an easy to measure 2 to 1 mix ratio and each is suitable for priming, body coat and/or as a finish coat.

TYPICAL USE

Universal **PM100 Series** is designed to be used as a primer, a mortar, a broadcast binder, self-leveling coating and as a grout or top coat in heavy duty, industrial and commercial applications. It is also commonly used in food preparation and processing areas, commercial kitchens, warehouses, hospitals, schools, laboratories, printing plants, mechanical and automotive shops. Being "*water clear*", **PM100 Series** in clear is also ideal for decorative, architectural applications.

LIMITATIONS

Avoid on or below grade applications where water vapor transmission is greater than 5 lbs./1000 sq. ft. per 24 hours or where ambient operating temperatures exceed 170° F.

Substrate must be sound, dry and free of surface contamination. Ambient air temperature must be at least 50°F and 3°F above dew point during application.

PACKAGING

Standard packaging for **PM100 Series** is 15 gallon units or 3 gallon kits.

STORAGE

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

FEATURES

- Top Quality Formulation
- Clear and Tinted
- Easy to use 2 to 1 Mix Ratio
- Versatile, use for Priming, Body and Finish Coats
- Variety of Cure Rates
- 100% Solids - Low Odor

BENEFITS

- Superior Chemical Resistance
- Nonslip to Smooth Textures
- Excellent Abrasion & Impact Resistance
- Reduced Customer Down Time
- Useable In Most Temperature Conditions
- Low Odor

COMPLIANCES

PM100 Series is compliant with the national and local volatile organic compound (VOC) regulations for Architectural and Industrial Maintenance Coatings.

COLOR SELECTION

PM100 - Clear

Tinted for mortar, decorative aggregate and self-leveling systems:

PM150 - Gray, Dark Gray, Mocha, Red

Standard and rapid cure Hardeners include: **PM125**, 126 and 127.

Note PM127 Hardener is not recommended as a finish coat.

CURE TIME

PM 125- 12 hours

PM 126- 7 hours

PM 127- 3 hours

Maximum Recoat Window: PM 125, 126, 127 is 24 hrs.

CHEMICAL RESISTANCE

PM100 Series Epoxy is very resistant to most common industrial chemicals and solvents. An abbreviated list follows. For more comprehensive chemical resistance analysis, contact **Milamar** Tele-Tech 800-459-7659.

REAGENT	30 MIN.	24 HRS.	7 DAYS
Acetone	NA	F	F
Acetic Acid	NA	F	F
Ammonium Hydroxide (28%)	NA	NA	NA
Calcium hypochlorite	NA	D	D
Clorox	NA	NA	NA
Ethylene Glycol	NA	NA	NA
Gasoline	NA	NA	NA
Isopropyl Alcohol (98%)	NA	NA	NA
Mineral Spirits	NA	NA	NA
Nitric Acid (10%)	NA	F	F
Nitric Acid (70%)	D	F	F
Skydrol #500	NA	NA	NA
Sulfuric Acid (10%)	NA	NA	D
Sulfuric Acid (45%)	NA	NA	D
Sodium Hydroxide (30%)	NA	NA	NA
Toluene	NA	F	F

N/A = NO ATTACK D = DISCOLORED F = FAILED

PHYSICAL PROPERTIES		
Compressive Strength	ASTM C-579	>12,000 psi
Tensile Strength	ASTM D-638	5,992 psi
Flexural Strength	ASTM C-580	7,127 psi
Bond Strength	MIL-D-3134F	546 psi. (Steel)
Bond Strength	ASTM-D-4541	>300 psi concrete failure
Linear Shrinkage	ASTM C-883	Nil
Hardness, Shore D	ASTM D-2240	82 - 85
Water Absorption	ASTM C-413	<.01
Abrasion Resistance	ASTM D-4060	.07 gram loss
Flammability	MIL-D-3134F	Fire Retardant
Indentation	MIL-D-3134F	.003"
Elongation	ASTM D-638	14%
Mixed VOC		<31 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.

TECHNICAL SERVICES

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.

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.

CAUTION:

COMPONENTS OF OR PRODUCTS USED WITH AND DURING THE INSTALLATION OF **MILAMAR** 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