

## Product Data Sheet

### PRODUCT DESCRIPTION

**Milamar Decorative Chip System** is a medium duty industrial or heavy duty commercial grade, decorative seamless flooring system. It is comprised of a durable fluid applied, pigmented, high build epoxy coating with decorative plastic chips embedded in ultra-clear, high durability epoxy or urethane. This decorative floor system will withstand the rigors of medium duty industrial and commercial applications. Surface finish can be slightly textured or glass smooth.

This specially formulated epoxy has very good chemical, excellent abrasion and impact resistance and good color stability. Three times stronger than concrete, this beautiful easily maintained floor will last two to three times longer than premium vinyl tile or sheet vinyl.

### TYPICAL USE

The versatile **PM DCS** flooring system is most often used in schools, community centers, fire houses, locker rooms and restrooms, and retail stores. But it is ideal for any area where a low maintenance, decorative, economical floor is required.

Use **PM DCS** anywhere a decorative, low maintenance, seamless floor that is an alternative to vinyl tile is desired.

### FEATURES

- Top Quality Formulation
- Low Maintenance
- Variety of Color Combinations
- Very Low VOC
- Very Good Chemical and Abrasion Resistance
- Good Impact Resistance
- Longer Lasting Than Vinyl Tile
- Easily Cleaned, No Seams to Harbor Dirt

### 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, dirt, and oil. Concrete should be lightly shot blasted or acid etched and neutralized to a smooth, even finish similar in texture to 100 grit sand paper.

Step 1. A bond/color coat of PM200 epoxy coating is normally squeegeed and back rolled. While bond coat is still fluid, broadcast Milamar Color Flakes into wet surface.

Coverage can be partial, showing background color or full flake coverage.

Step 2. Apply a thin coat of PM100 clear epoxy by squeegee and back roll method to lock in color flakes. Allow to cure.

Step 3. Apply a finish coat of either PM100 clear epoxy or for Ultra Violet protection and better scuff resistance a coat of PM500 Chemical Resistant Urethane by squeegee and back roll method.

Additional coats of PM100/PM500 can be applied to further smooth surface. If a slip resistant finish is required, the appropriate aggregate can be pre-mixed with the A and B components or it may be broadcast on the surface once the coating has been applied.

### PACKAGING

Liquid components are normally packaged in 5 gallon pails. Color Flakes are packaged in 55 lb. boxes. Larger or smaller packaging is available by special order with minimum quantity restrictions.

### STORAGE

For best shelf life, store **PM DCS** 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 sq. ft. per 24 hours or where ambient operating temperatures exceed 170° F. Apply at temperatures above 55° F or below 90° F. For UV protection use PM-500 finish over full flake coverage.

### COMPLIANCES

**PM DCS** is compliant with EPA architectural coatings volatile organic compound (VOC) rule, New York City AQMD Rule 205 and the New Jersey VOC requirements.

### CHEMICAL RESISTANCE

**PM DCS System** is very resistant to most common industrial chemicals and solvents. An abbreviated list follows. For more comprehensive chemical resistance analysis, contact **Milamar Tele-Tech**.

Note: See the **PM-500 Urethane** Product Data Sheet for chemical resistance when using as a finish coat on the **PM DCS** system.

REAGENT	30 MIN.	24 HRS.	7 DAYS
Acetone	NA	F	F
Acetic Acid	NA	F	F
Ammonium Hydroxide (28%)	NA	NA	NA
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	D	D
Sulfuric Acid (45%)	NA	NA	D
Sodium Hydroxide (30%)	NA	NA	NA
Toluene	NA	F	F
Urine-Synthetic (6.6% urea)	NA	NA	NA
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	ACI 503R	> 300 psi, Concrete Failure
Bond Strength	ASTM D-4541	546 psi. (Steel)
Linear Shrinkage	ASTM C-883	Nil
Hardness	ASTM D-2240	82 - 85 Shore D
Water Absorption	ASTM C-413	<.01
Flammability	MIL-D-3134F	Fire Retardant
Indentation	MIL-D-3134F	.003"
Elongation	ASTM D-638	14%

**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**

Color combination is virtually unlimited with decorative chips available in a minimum of 30 solid colors and epoxy background colors in off white, gray, dark gray, tile red, and mocha.

**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

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