



PM-DCS

DECORATIVE CHIP SYSTEM

PRODUCT DATA SHEET

PRODUCT DESCRIPTION

PolyMax 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 **PolyMax 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.

OMPLIANCES

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 **PolyMax** 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

PolyMax 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 **PolyMax** 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 **POLYMAX** 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

PolyMax products are manufactured to meet the highest level of consistency and quality for their intended use. All products are warranted to meet the physical properties as listed above. Should any **PolyMax** products be proven to be defective within one year of the date of shipment, the products will be either replaced or at our discretion a credit for the full purchase price will be issued. The successful performance of seamless flooring is highly dependent upon many factors beyond our control. Therefore, except for such replacement or refund **PolyMax** MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS, DESIGN COMPATIBILITY OR MERCHANTABILITY, RESPECTING ITS PRODUCTS. Other than that stated in the foregoing, **PolyMax** shall have no other responsibility or liability, including direct and/or indirect and/or consequential damages and/or damages from delay and/or damages to any third party with respect to the use of it's products. Claims regarding product quality must be received in writing within 30 days of discovery of defect.

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