



**PolyMax**<sup>™</sup>  
Maximum Performance Polymer Flooring

# PM-400

BREATHABLE FLOOR COATING

## PRODUCT DATA SHEET

### PRODUCT DESCRIPTION

**PM-400** is a new generation, low **VOC**, epoxy coating, which exhibits exceptional properties previously unavailable with waterborne products. **PM-400** meets the performance standards, including chemical, abrasion and impact resistance of traditional **heavy-duty** industrial epoxy floor coatings.

**PM-400** will perform in areas where heavy-duty industrial floor coatings could not previously be used. Extremely low odor, **PM-400** can usually be installed during work hours. It can be installed over damp concrete or over porous concrete. **PM-400** virtually eliminates pinholes caused by concrete gassing. It is highly resistant to hydrostatic delamination. **PM-400** has lustrous finish but more slip resistant than high gloss finishes.

### FEATURES

- Heavy Duty Epoxy but Waterborne & NO LATEX
- May Be Used Below Grade
- Virtually Odorless
- Exceptional Bond to Dry or Damp Concrete
- Reduces Cost of Floor Maintenance
- Excellent Chemical, Abrasion & Impact Resistance
- Variable Surface Textures
- Brightens Work Areas

### TYPICAL USE

Use **PM-400** Epoxy Coating wherever a durable, easy to clean, chemical and abrasion resistant floor finish is required. Due to its unique formulation, it is particularly well suited for floors in wet areas as well as on grade or below grade floors where moisture vapor emission is less than 10 lbs./1000 square feet per 24 hours. Coating should not exceed 20 wet mils in two coats in these areas.

Choose **PM-400** Epoxy coating to reduce maintenance costs, dust proof and brighten warehouses, manufacturing areas, machine shops, automotive repair facilities, locker rooms and showers. It provides excellent protection for concrete floors in breweries where the floors are continuously damp or wet.

### 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, oil and grease. Preferred surface texture is similar to 100-grit sandpaper. Contact **Tele-Tech** for advice on coating previously coated substrates.

**PM-400** Epoxy Coating is normally roller applied with a 3/8" nap, mohair roller at a rate of 200 square feet per gallon per coat. (350 square feet per gallon for clear) Two coats are recommended but additional coats may be installed for improved durability.

Under standard conditions (75° F, 55% RH), **PM-400** has a pot life of 2 hours with a recoat time of 6 hours. (Contact **Tele-Tech** at **1-800-459-7659** for assistance in determining specific thickness, preparation and application methods)

### PACKAGING

**PM-400** is normally packaged in 4-gallon kits. Recommended coverage is 800 square feet per kit (1400 square feet per kit for clear). Other package sizes are also available by special order with minimum quantity restrictions.

### CAUTION

**PolyMax Systems** are intended for use by professional applicators only. Although safe if properly handled, all personnel who are exposed to any chemical must read, completely understand and comply with all precautions and warnings on label and MSDS prior to use.

### STORAGE

For best shelf life, store **PM-400** 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

Do not install on wet (standing water) floors, in areas receiving direct sun light or where floor will be affected by drafts during curing process. Avoid use where ambient operating temperatures exceed 170° F, or application temperatures are below 65° F or above 90° F and above 80% relative humidity.

## COMPLIANCES

**PM-400** is compliant with all state and local air quality standards.

## CHEMICAL RESISTANCE

Unlike conventional waterborne or emulsion epoxies, **PM-400** Epoxy contains no latex. It is far more resistant to most common industrial chemicals and solvents as well as impact and abrasion than conventional waterborne epoxies. 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.	7 DAYS
Acetone	N	N	F
Acetic Acid (50%)	N	N	N
Ammonium Hyd. (28%)	N	N	N
Clorox	N	N	D
Ethylene Glycol	N	N	N
Gasoline	N	N	N
Isopropyl Alcohol (98%)	N	N	N
Mineral Spirits	N	N	N
Nitric Acid (10%)	N	D	D
Nitric Acid (35%)	D	D	D
Phosphoric (50%)	D	D	D
Skydrol #500	N	N	N
Sulfuric Acid (10%)	N	N	D
Sulfuric Acid (45%)	N	N	D
Sodium Hydroxide (30%)	N	N	D
Toluene	N	N	F

N = NO ATTACK D = DISCOLORED F = FAILED

Physical Property	Result
Percent Solids	56%
Minimum Wet Film Thickness	8 mils per coat
Maximum Wet Film Thickness	16 mils per coat
Pot Life	2 hrs @ 75° F & 50% RH
Recoat Time, 75° F, 50% RH	6 hours
Components	2
Bond Strength ASTM D-4541	>300 psi
Hardness ASTM D-2240	76 (Shore D)
Indentation MIL-D-3134F	No Chipping or Cracking
Elongation ASTM D-638	4.3%

**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 **Tele-Tech at 1-800-459-7659** 8:00 AM through 4:00 PM Central time.

## COLOR SELECTION

Standard colors are Gray, Mocha, Tile Red, Blue and Green. Also available in clear. Custom colors are available in 250 gallon minimums at additional charge.

## CAUTION

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

**POLYMAX** Coatings are manufactured to meet the highest level of consistency and quality for their intended use. All **POLYMAX** materials are warranted to meet the physical properties as listed above. Should any **POLYMAX** Coatings product be proven to be defective within one year of the date of shipment, the material 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 **POLY MAX** and its affiliates **MAKE NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS, DESIGN COMPATIBILITY OR MERCHANTABILITY, RESPECTING ITS COATINGS.** Other than that stated in the foregoing, **POLYMAX** and its affiliates 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 its materials. Claims regarding product quality must be received in writing within 30 days of discovery of defect.

### milamar coatings

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