



PM-400

BREATHABLE FLOOR COATING

PRODUCT DATA SHEET

PRODUCT DESCRIPTION

PM-400 is a new generation, low VOC, pigmented 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 is 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 Concrete
- Breathable
- Excellent Chemical, Abrasion & Impact Resistance
- 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 on grade or below grade 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.

PM-400 Epoxy coating can also be used as receiving coat for random and full flake broadcast systems or have slip resistant aggregate incorporated for wet environments. Excellent for warehouses, manufacturing areas, machine shops, automotive repair facilities, hangars and garages where moisture vapor emission is a concern.

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. Preferred surface texture is similar to 100-grit sandpaper.

PM-400 Epoxy Coating is normally roller applied with a 3/8" nap shed resistant roller at a rate of 200 square feet per mixed gallon per coat. Two coats are recommended for uniform pigmented finish. **PM-400** can be topcoated with PolyMax urethanes for added durability.

Under standard conditions (75° F, 55% RH), **PM-400** has a pot life of 2 hours with a recoat time of 7 hours. (Contact Tele-Tech at 1-800-459-7659 for assistance regarding previously coated substrates, thickness, preparation and application methods)

PACKAGING

PM-400 is packaged in 4-gallon kits. Recommended coverage is 800 square feet per kit, per coat.

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. Surface should be dry to the touch. Do not install 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. Material temperature should be above 70°F for best workability. **PM-400** is not designed to be used as a moisture mitigation system or topcoated with epoxy. It should only be topcoated where necessary with PolyMax urethanes.

COLOR SELECTION

PM-400 available in standard colors Gray, Mocha, Tile Red and Green. Custom colors are subject to minimum quantities and additional charge.

COMPLIANCES

PM-400 is compliant with national state and local air quality standards but as standards change, be sure to consult your states specific requirements before use.

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 Hydroxide (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, all colors	50-55%
Wet Film Thickness	8-12 mils
Pot Life 75° F & 50% RH	2 hrs
Recoat Time, 75° F, 50% RH	7 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%
VOC, mixed	84 gram/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

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.

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

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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