



PM-550

WATERBORNE URETHANE COATING

PRODUCT DATA SHEET

PRODUCT DESCRIPTION

PM-550 is low VOC, aliphatic urethane coating, which exhibits exceptional properties previously unavailable with waterborne products. **PM-550** meets the performance standards, including abrasion and impact resistance of traditional solvent based industrial urethane floor coatings. **PM-550** is low odor and is easy to install.

Due to its unique ability to allow vapor emission, **PM-550** in conjunction with **PM-400** can be installed on or below grade and even in exterior applications. **PM-550** is fully resistant to all common automotive and aviation fluids, salt and chemical deicers. It is ideal for basements, recreation rooms and as a durable shop floor topcoat. Also excellent as an economical T-hangar coating topcoat when used with **PM-400**.

TYPICAL USE

PM-550 is primarily used as a finish coat for **PM-400** and a clear finish for the decorative color chip floor system. **PM-550** can also be use with traditional PolyMax systems as a low odor, low VOC urethane finish. When used as a finish coat over **PM-400** it has the ability to relieve moisture vapor emission up to 10 pounds/1000 square feet per 24 hours. See **PM-400** product data sheet. Choose **PM-550** to reduce staining, increase abrasion resistance, brighten floors and lower maintenance in warehouses, manufacturing areas and machine shops.

FEATURES & BENEFITS

- Exceptional Chemical, Abrasion & Impact Resistance
- Low Odor Aliphatic Waterborne Urethane
- Low VOC, Under 6 Grams Per Liter
- Easy To Apply With Long Pot Life
- May Be Used Below Grade
- Light Reflective Gloss Finish
- Breathable

COMPLIANCES

PM-550 is compliant with EPA's national Volatile Organic Compound (VOC) AIM rule and South Coast Air Quality Management District Rule 1113.

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. Concrete should be diamond ground to a smooth, even finish, similar in texture to 100/200 grit sand paper or CSP 3 profile. For stained concrete, surfaces previously coated or questionable substrates contact manufacturer.

Both waterborne or high solids epoxy primer or base coat should be tack free before applying **PM-550**. **PM-550** Coating is applied by roller using a 3/8" nap cover at a rate of 5 wet mils or 320 square feet per mixed gallon. **PM-550** has a pot life of 1 hours with a recoat time of 9 hours. (Contact Tele-Tech at 1-405-755-8454 for assistance in determining required thickness preparation and application methods)

PACKAGING

PM-550 is packaged in 1.8 gallon and 4 gallon kits. Recommended coverage is 320 square feet per gallon.

STORAGE

For best shelf life, store **PM-550** in a dry area at temperatures between 50° F and 90° F. Protect product from freezing. Minimum shelf life is six months from date of manufacture, when properly stored.

LIMITATIONS

Do not install in direct sun light or where affected by drafts. Avoid use where ambient operating temperatures exceed 200° F. Ideal application temperatures are above 65° F and below 90° F with under 50% relative humidity. Do not install greater than 6 wet mils as it will affect the aesthetics of the film.

CHEMICAL RESISTANCE

Unlike conventional waterborne or emulsion urethanes, **PM-550** is far more resistant to most common industrial chemicals and solvents as well as impact and abrasion. 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.
Acetic (20%)	N	N
Acetone	N	N
Ammonium Hydroxide (28%)	N	N
Battery Acid	N	N
Betadine	N	N
Brake & Hydraulic Fluid	N	N
Clorox	N	N
Gasoline	N	N
Hydrochloric (10%)	N	N
Isopropyl Alcohol (98%)	N	N
Mineral Spirits	N	N
Motor Oil	N	N
Nitric Acid (20%)	N	N
Skydrol	N	N
Sodium Hydroxide (50%)	N	N
Sodium hypochlorite (10%)	N	N
Sulfuric Acid (50%)	N	N

N = NO ATTACK D = DISCOLORED F = FAILED

Physical Property		
Percent Solids	By volume	52%
Recommended Wet Film Thickness		5 mils
Pot Life	75° F & 50% RH	1 hrs
Recoat Time	75° F & 50% RH	9 hours
Mix Ratio		3:1 , A to B
Bond Strength	ASTM D-4541	>300 psi
Linear Shrinkage	ASTM C-883	Nil
Hardness, Shore D		73
Indentation	MIL-D-3134F	No Chipping or Cracking
Elongation	ASTM D-638	35%
Abrasion Resistance	ASTM D-4060	33 mg loss
Mixed VOC		6 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.

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

COLOR SELECTION

Available in clear, white and gray. 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, **PolyMax** 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.

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