



PM-HDM

HEAVYDUTY EPOXY FLOORING

PRODUCT DATA SHEET

PRODUCT DESCRIPTION

PolyMax Heavy Duty Mortar is a troweled industrial epoxy flooring system that is particularly well suited for renovation of severely damaged old concrete. It is easily cleaned and virtually eliminates surface chips, cracks and rough control joints which can result in employee injuries, high forklift maintenance and increased general maintenance costs. Use on new floors to prevent costly damage from impact and wear for the normal life of the floor.

Surface finish can range from very aggressive to nearly glass smooth to enhance cleanability. Its specially formulated epoxy has very good chemical resistance, excellent abrasion and superior impact resistance and color stability.

TYPICAL USE

PM-HDM is designed to withstand the rigors of heavy industrial use. Its specially graded aggregates and heavy duty epoxy protect concrete floors from typical industrial damage by harsh chemicals, impact and abrasion. Its most common usage is in automotive manufacturing, machine shops, bottling plants, food packing plants, wet process and chemical handling areas.

LIMITATIONS

Avoid on or below grade applications where water vapor transmission is greater than 5 lbs./1000 sq. ft. per 24 hrs. or where ambient operating temperatures exceed 170° F.

Substrate must be sound, dry and free of surface contamination. Ambient air temperature must be at least 50° F and 3° F above dew point during application.

PACKAGING

Standard packaging for liquid portion is 5 gallon pails. Larger or smaller packaging is available by special order.

STORAGE

Store in a dry area at temperatures between 50° F and 90° F. **Protect product from freezing and excessive heat.** Minimum shelf life is one year from date of manufacture when stored properly.

THICKNESS

PM-HDM is typically installed at 1/8" to 3/8" in thickness. Additional thickness may be specified for special uses.

FEATURES

- Seamless
- Very Impact Resistant
- Variety of Finishes
- Chemical and Stain Resistant
- Minimal Odor During Installation
- Quick Installation
- Economical Price

BENEFITS

- Sanitary
- Smooth & Even Traffic Surface
- Slip Resistant or Very Easily Cleaned
- Reduced Maintenance Costs
- Can be Installed in Most Environments
- Reduced Down Time for Application
- Excellent Return on Investment

CAUTION

PolyMax HDM systems are intended for use by professional applicators. Results are highly dependent upon the skill of the applicator. Although materials are safe if properly handled, all personnel who are exposed to any chemicals must read and completely understand precautions and warnings on label and MSDS prior to use.

COMPLIANCES

All components of **PM-HDM** seamless flooring are compliant with the State of California Air Resources Board approved architectural coatings volatile organic compound (VOC) rule, San Diego APCD Rule 67, New York City AQMD Rule 205 and the New Jersey VOC requirements.

CHEMICAL RESISTANCE/PHYSICAL PROPERTIES

PM-HDM flooring is very resistant to most common physical stresses, industrial chemicals and solvents. For more comprehensive chemical resistance analysis or physical properties test results, contact **Tele-Tech** at **1-800-459-7659** 9:00 AM to 4:00 PM central time.

REAGENT	30 MIN.	24 HRS.	7 DAYS
Acetone	NA	F	F
Acetic Acid	NA	F	F
Acetic Acid (5%)	NA	NA	NA
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 (45%)	NA	D	D
Sodium Hydroxide (30%)	NA	NA	NA
Toluene	NA	F	F

N/A = NO ATTACK D = DISCOLORED F = FAILED

Physical Property	Test	Result
Compressive Strength	ASTM C-579	11,050 psi
Tensile Strength	ASTM C-307	1,790 psi
Flexural Strength	ASTM C-580	4,990 psi
Bond Strength	ACI 503R	>300 psi
Linear Shrinkage	ASTM C-883	Nil
Hardness	ASTM D-2240	83 Avg.
Water Absorption	ASTM C-413	.02%
Flammability	MIL-D-3134F	Fire Retardant
Indentation	MIL-D-3134F	.002"
Elongation	ASTM D-638	6%

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 Polymer Products are available only through selected and approved applicators or one of the many **PolyMax** distribution centers. 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, Dark Gray, Tile Red and Mocha. (Custom colors are available at additional charge.)

CAUTION

COMPONENTS OF OR PRODUCTS USED WITH AND DURING THE INSTALLATION OF POLYMAX POLYMER 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 Polymer 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** Polymer 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** and its affiliates MAKE 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** 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 products. Claims regarding product quality must be received in writing within 30 days of discovery of defect.

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