



# PM-175

## POWER TROWEL EPOXY FLOORING

### PRODUCT DATA SHEET

#### PRODUCT DESCRIPTION

**PolyMax PM-175** is comprised of a clear or tinted epoxy designed to be used with various aggregates. Specifically formulated for power troweled mortar systems, **PM-175** has very good chemical resistance, excellent abrasion and impact resistance and good color stability.

**PM-175** hardener allows the system to be installed under most environmental conditions. This rapid cure hardener returns the floor to service in under 24 hours.

#### TYPICAL USE

**PM-175** is designed to withstand the rigors of heavy industrial use. Its heavy duty epoxy combined with specially graded aggregates protect concrete floors from typical industrial damage by harsh chemicals, impact and abrasion. **PM-175** is also suitable for sloping surfaces for drainage and repairing concrete slabs. It is commonly used in food processing and preparation facilities.

#### 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 **PM-175** is in 5 gallon pails. Smaller packaging is available at additional cost.

#### THICKNESS

**PM-175** mortar is typically installed at 3/16" to 3/8" in thickness. Additional thickness may be specified for special uses.

#### BENEFITS

- Longer Lasting Service Life
- Excellent Abrasion & Impact Resistance
- Superior Chemical Resistance
- Power Trowel Formulation Reduces Customer Down Time
- Useable In Most Temperature Conditions
- Smooth & Even Traffic Surface
- 100% Solids - Low Odor

#### STORAGE

For best shelf life, store **PM-175** 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 stored properly

#### CAUTION

**PolyMax PM-175** 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

**PM-175** is 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

**PM-175** Epoxy is very resistant to most common industrial chemicals and solvents. An abbreviated list follows. For more comprehensive chemical resistance analysis, contact **PolyMax** Tele-Tech.

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 (90%)	F	F	F
Sodium Hydroxide (30%)	NA	NA	NA
Toluene	NA	F	F

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

PHYSICAL PROPERTIES		
Compressive Strength	ASTM D-695	13,200 psi
Tensile Strength	ASTM D-638	8,700 psi
Bond Strength	ASTM D4541	350 psi
Hardness	ASTM D-2240	85 Shore D
Water Absorption	ASTM C-413	<.01
Flammability	MIL-D-3134F	Fire Retardant
Abrasion, CS17 wheel	ASTM D-4060	.037 grams loss
Elongation	ASTM D-638	3%
Mix Ratio by volume		5:1
Percent Solids		100%

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.

## TECHNICAL SERVICES

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

Standard colors are Clear, Gray, Dark Gray, Tile Red. (Custom colors are available at additional charge.)

## 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 its products. Claims regarding product quality must be received in writing within 30 days of discovery of defect.

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