PolyMax™
Maximum Performance Polymer Flooring

POLY M-CRETE

SPG TROWELED
URETHANE CONCRETE FLOORING

PRODUCT DATA SHEET

PRODUCT DESCRIPTION

PolyMax Poly M-Crete is a three component trowel applied, heavy duty, chemically resistant, Urethane Concrete Floor System for manufacturing facilities where aesthetics is not imperative. The **PolyMax Poly M-Crete is** applied directly over prepared concrete surfaces with an anchor pattern of 2.0-3.0 mils minimum to achieve exceptional bond strength.

TYPICAL USE

PolyMax Poly M-Crete is designed to withstand the rigors of heavy industrial use. Its specially graded aggregates and heavy duty urethane binder protect concrete floors from typical industrial damage by harsh chemicals, impact and abrasion. Its most common usage is in processing facilities, bottling plants, food packing plants, commercial kitchens, bakeries, wineries, dairies, wet process and chemical handling areas.

Ideal for areas where thermal shock and rapid temperature changes are likely to occur. For use in areas where temperature ranges are from –20°F to 260°F and in areas where suspect vapor barriers are present.

FEATURES & BENEFITS

- Seamless
- Impact Resistant
- Withstands Thermal Shock and Rapid Temperature Changes
- Excellent Chemical Resistance
- Minimal Odor During Installation
- Can be steam cleaned
- USDA accepted
- Easy cleanability
- Excellent adhesion to concrete
- Can be Installed in Most Environments
- Reduced Down Time for Application
- Will not support fungi growth

THICKNESS

PolyMax Poly M-Crete is typically installed at nominal 1/4" to 3/8" in thickness. Additional thickness may be specified for special uses.

PACKAGING

Standard packaging is 13-15 square foot kits.

LIMITATIONS

Substrate must be sound, dry and free of surface contamination. Apply at surface temperatures above 50°F and below 85°F and ambient air temperature over 50°F. Avoid frozen concrete. Apply to dry concrete substrates without visible signs of moisture. Concrete must be a minimum of 3000 psi material. New concrete pours must cure for a minimum of 14 days. Avoid on or below grade applications where water vapor emission is greater than 10 lbs/1000 sq.ft. per 24 hours. Do not mix batches in a single floor area as color uniformity from batch to batch cannot be guaranteed.

STORAGE

Store in a dry area at temperatures between 50° F and 85°F. Protect product from freezing and excessive heat.

CAUTION

PolyMax Poly M-Crete 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.

AVAILABILITY

PolyMax Polymer Products are available only through selected and approved applicators. 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

Standard colors are Gray and Red. Pigment packs are available in Gray, Dark Gray, Red and Cream for added color availability.

CHEMICAL RESISTANCE/PHYSICAL PROPERTIES

PolyMax Poly M-Crete 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
Acetic Acid (10%)	N	N	N
Ammonium Hydroxide (28%)	N	N	N
Citric Acid (10%)	N	N	N
Clorox	N	N	N
Ethylene Glycol	N	N	N
Gasoline	N	N	N
Hydrochloric acid (32%)	N	N	N
Isopropyl Alcohol (98%)	N	N	N
Mineral Spirits	N	N	N
Nitric Acid (10%)	N	N	N
Phosphoric Acid 50%	N	N	N
Skydrol #500	N	N	N
Sulfuric Acid (45%)	N	D	D
Sodium Hydroxide (30%)	N	N	N
Sodium Hypochlorite <6%	N	N	N
Toluene	N	N	N

N = NO ATTACK D = DISCOLORED F = FAILED

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Physical Property	Test	Result
Compressive Strength	ASTM C-579	7,550 psi
Tensile Strength	ASTM C-307	900 psi
Flexural Strength	ASTM C-580	2,000 psi
Bond Strength	ASTM C-321	Concrete failure cohesively
Impact	Gardner MIL-D-3134F	160 in/lbs No cracking or delamination
Linear Shrinkage	ASTM C-531	.20%
Coefficient of Thermal Expansion	ASTM C-531	1.2×10^{-5}
Modulus of Elasticity	ASTM C-580	1.8×10^{5}
Absorption	ASTM C-570	0.1%
Softening Point	Vicat	265° F
Coefficient of Friction	ASTM D-2040	0.8-1.2
Anti-Microbial Resistance	ASTM G-21	Passes

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.

VOC CONTENT:

Mixed VOC, 0 grams/liter

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 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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