

POLY-CRETE MD

DESCRIPTION

POLY-CRETE MD is a 100% solids, aromatic, cementitious urethane system blended with graded silica and fine fillers applied at 3/16 to 1/4 inch to produce a self-leveling matte finish of uniform color.

BENEFITS

- VOC Compliant
- CA 01350 Indoor Air Quality Compliant
- ADA Compliant
- Leed Credits Available
- Meets USDA, FDA, and CFIA Standards
- Superior Adhesion
- Superior Chemical Resistance
- Will not support bacteria growth
- Easy Maintenance
- Wide Service Temperature, -100 to 220 °F
- No Topcoat Required
- Can Be applied To 7-14 Day Old Concrete

LIMITATIONS

Do not apply at a temperature below 60°F (10°C) or above 85°F (29°C). POLY-CRETE MD can be slippery when oily. Do not apply to un-reinforced sand cement screeds, asphalt or bitumen substrates, glazed tile or nonporous brick and tile, magnesite, copper, aluminum, polyesters or elastomeric membranes.

TYPICAL USES

POLY-CRETE MD is designed to protect concrete, polymer reinforced screeds, or water resistant plywood from chemical attack, corrosion impact and thermal shock. Repeated exposure to hot oil or steam does not cause pitting, cracking or crazing.

- Chemical Processing
- Food Processing Areas
- Cook / Chill Areas
- Pharmaceutical
- Bakeries
- Cage Wash Areas
- Bottling Areas
- Sanitize / Wash Areas
- Plant Vehicle Aisles
- Mfg/Production Areas
- Warehouses

COLORS

Refer to Poly-Crete MD Color Selector Guide. Special color matches may be available

PACKAGING & STORAGE CONDITIONS

POLY-CRETE MD is available in pre-measured kits that cover 32 square feet at 3/16 inch. POLY-CRETE MD must be stored dry. Do not use partial bags of aggregate. Do not allow resins to freeze. Every POLY-CRETE product will be shipped with a lot number on the label. The first two digits indicate the year; the second two show the month, the third two will be the day. The shelf life is 6 months from the date on the label in the original unopened container.

SURFACE PREPARATION

This product requires preparation in order to perform as expected. Surface must be profiled, clean, dry, oil free and sound. It is recommended that the perimeter edges of the floor area and doorways be keyed to produce a cross section ¼ inch deep by 3/16 inch wide running at 6 inches away from and parallel to doorways, drains and walls. Please refer to the master Surface Preparation Guide on our website for more information.

APPLICATION METHOD /SPREAD RATES

POLY-CRETE MD should be applied to a pre-primed area at the required thickness by using a steel-bladed trowel, pin rake, “V” notched trowel or cam rake. The freshly placed material is then spiked rolled. As an option, a coat of POLY-CRETE COLOR-FAST can be applied to prevent ambering.

DRAWINGS AND DETAILS

Standard CAD drawings and details are available for coves, drains, breaches, transitions, etc. Please refer to the master Drawings and Details guide for actual drawings.

JOINT GUIDELINES

Refer to the Joint Guidelines for complete details on our website.

MOISTURE CONCERNS

Normal limits for moisture vapor transmission for Poly-Crete floor systems are 20 lbs./1,000 sq. ft./24 hour using the calcium chloride test per ASTM F-1869 or 99% relative humidity using in-situ Relative Humidity Testing per ASTM F-2170. Please refer to the Floor Evaluation Guidelines at www.dur-a-flex.com for complete details.

POLY-CRETE MD

TECHNICAL INFORMATION

Cure Time @ 70°F		
Light Traffic	10 hours	
Light wheel traffic	16 hours	
Full Service	5 days	
Heavy Duty Traffic	48 hours	
Color	Refer to Poly-Crete MD Color Selector Chart	
Mix Ratio (by volume)	3 Component Kit	
Working time @ 70°F	15 minutes	
Adhesion to Concrete	> 400 psi, concrete fails before loss of bond	
Service Temperature	-100 F to 220 F (live steam)	
Physical Property	Test Method	Result
Hardness (Shore D)	ASTM D 2240	75-80
Compressive Strength	ASTM C 579	9,000 psi
Tensile Strength	ASTM D 638	2,175 psi
	ASTM C 307	1,000 psi
Impact Resistance @ 125 mils	MIL D-3134	Pass
Flexural Strength	ASTM D 790	5,076.3 psi
	ASTM C580	2,400 psi
Abrasion Resistance CS17 Wheel 1000 GM Load 1,000 Cycles	ASTM D 4060	24 mg loss
Coefficient of Friction Standard Slip-Resistant	ASTM D 2047	(Passes ADA recommendations) >0.6
VOC Content		0 g/L
Indoor Air Quality		Compliant to CA 01350

CHEMICAL RESISTANCE

POLY-CRETE MD has excellent resistance to organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic solvents. Some acids may discolor or bleach the surface.

CLEANING

Regular scrubbing will maintain these systems in serviceable condition as long as contamination is not allowed to build. However, certain textures and service environments require specific procedures. Please refer to the master Cleaning Guide on our website for more information.

CAUTION

Read, understand and follow Material Safety Data Sheets and Application Instructions of this flooring system prior to use. Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed.

Before using any DUR-A-FLEX, Inc. product, be sure the Material Safety Data Sheet is read and understood.