

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
- ADA Compliant
- Leed Credits Available
- Meets USDA, FDA, and CFIA Standards
- Superior Adhesion
- Superior Chemical Resistance
- Easy Maintenance
- Wide Service Temperature, -100 to 220 °F
- No Topcoat Required
- Can Be applied To 7-14 Day Old Concrete

COLORS

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

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

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 CF can be applied to prevent ambering.

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.

STORAGE CONDITIONS

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.

PACKAGING

POLY-CRETE MD is available in pre-measured kits that cover 32 square feet at 3/16 inch.

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.

MOISTURE CONCERNS

Please refer to the Floor Evaluation Flow Chart in the Contractor's Center of our website for a step-by-step process to determine the condition of the concrete.

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	2175 psi
Impact Resistance @ 125 mils	MIL D-3134	Pass
Flexural Strength	ASTM D 790	5,076.3 psi
Abrasion Resistance CS17 Wheel 1000 GM Load 1,000 Cycles	ASTM D 4060	24 mg loss
Coefficient of Friction	ASTM D 2047	(Passes ADA recommendations) 0.71 - Dry 0.63 - Wet
Standard Slip-Resistant		
VOC Content		0 g/L

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.

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.

JOINT GUIDELINES

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

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