

## 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 installed with moisture levels up to 12 lbs/1,000 sf/ 24 hrs.
- 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
- Joint Repair

### 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" 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 50°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, magnasite, 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.

### GUIDE SPECIFICATIONS

This product is part of the DUR-A-FLEX family of polymer systems. Please contact DUR-A-FLEX for complete three part guide specs.

### MOISTURE CONCERNS

Moisture vapor transmission in the slab should be measured prior to application of polymeric systems to ensure a long lasting, durable installation. Please

# POLY-CRETE MD

## TECHNICAL INFORMATION

Cure Time @ 70°F		
Light Traffic	10 hours	
Light wheel traffic	16 hours	
Full Service	3 - 5 days	
Heavy Duty Traffic	48 hours	
Color	Refer to Poly-Crete MD Color Selector Chart	
Mix Ratio (by volume)	3 Component Kit	
Pot Life - 1 gallon @ 77°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)
Standard Slip-Resistant		0.71 - Dry 0.63 - Wet
VOC Content		0 g/L

refer to the master “Moisture Guidelines” for more information

### 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**” 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.***

“Warranties: Seller warrants that its goods, as described on the face hereof, are free from any defects in material or workmanship. Seller makes no other warranty, express or implied, and all implied warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Seller shall not be liable for prospective profits or special indirect or consequential damages. Seller’s sole liability and buyer’s exclusive remedy for breach of any warranty as expressly limited, at seller’s option, to replacement at the original F.O.B. point or refund of purchase price. Seller shall not be responsible for any claim resulting from failure to utilize product in the manner in which it was intended and in accordance with instruction provided for use of product. Any claim for breach of warranty shall be deemed waived unless buyer shall give seller written notice of such claim within sixty (60) days after delivery and shall allow seller reasonable opportunity to investigate claim and inspect product.”