

## HYBRI-FLEX<sup>®</sup> MC

### DESCRIPTION

HYBRI-FLEX MC is a 100% solids decorative chip system composed of a 1/8" POLY-CRETE MD SL body coat with a decorative chip broadcast. It uses a 16 mil CRYL-A-GLAZE G201 broadcast coat, and two 16 mil CRYL-A-TOP T301 topcoats yielding a total nominal system thickness of 3/16".

### BENEFITS

- VOC Compliant
- ADA Compliant
- Contributes to LEED Credits
- Meets USDA, FDA and CFIA Standards
- Hygienic - Does Not Harbor Bacteria
- High Chemical Resistance
- High Abrasion Resistance
- Self-Priming for Most Applications
- Wide Service Temperature Range
- Can Be Applied To 5-7 Day Old Concrete

### LIMITATIONS

This product is best suited for application in temperatures between 60°F and 85°F. Substrate must be clean, sound and dry.

### TYPICAL USES

HYBRI-FLEX MC is designed to protect concrete, polymer reinforced screeds, mild steel and water resistant plywood from chemical attack, corrosion, impact and thermal shock. It is also unaffected by freeze/thaw cycles.

- Aesthetic Considerations
- Wet Areas
- Restaurants
- Veterinary Facilities
- Pharmaceutical Plants
- Retail
- Exterior Applications

### COLORS

The decorative colored chips that are used in the HYBRI-FLEX MC system are available in MACRO and MICRO size. Refer to the Color Selection Chart for the standard chip blends. Customs blends are also available.

### PACKAGING & STORAGE CONDITIONS

POLY-CRETE MD SL is available in pre-measured kits that consist of resin, hardener and aggregate. CRYL-A-GLAZE and CRYL-A-TOP resins are packaged in 1 gallon, 5 gallon and 50 gallon quantities.

HYBRI-FLEX MC components must be stored dry. Do not allow resins to freeze. Do not store near open flame or food. The shelf life of this product is 6 months from ship date 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. Please refer to the Surface Preparation Guide on our website for more information.

### APPLICATION METHOD

POLY-CRETE MD SL is applied to a properly prepared area at the required thickness using a "V" notched squeegee. The freshly placed material is then loop rolled into which the proper size chips are broadcast to excess to achieve the desired aesthetics. Allow a minimum of 6 hours for the Base Coat to cure before sweeping, sanding or vacuuming. Apply a second chip broadcast into CRYL-A-GLAZE G201. Apply the CRYL-A-TOP coats to achieve the required finish. CRYL-A-TOP T303 is used for exterior applications. See the Application Instructions on our website for a detailed installation procedure.

### 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.

### 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.

# **HYBRI-FLEX MC**

## **TECHNICAL INFORMATION**

Percent reactive resin, %	100
VOC, g/l	<100
Compressive strength, psi (filled system)	8,000
Compressive strength BS EN 13892-2	44 N/mm <sup>2</sup>
Tensile strength, ASTM D638, psi	3,550
Abrasion Resistance, ASTM D-4060	21mg loss
Abrasion Resistance, BS EN 13892-4	AR 0.5
Flexural Strength, BS EN 13892-2	18 N/mm <sup>2</sup>
Tensile modulus, ASTM D638, psi	300,000
Coefficient of thermal expansion	
ASTM D696, in/in/F	3.5 x 10 <sup>-5</sup>
Water vapor transmission	
DIN 53122, g/cm-hr-mm HG x 10 <sup>-9</sup>	0.9
Potlife @ 68 F, minutes	15
Cure time @ 68 F, minutes	30-60
Recoat time @ 68 F, minutes	30-60
Coefficient of Friction, ASTM D-2047	>0.6

### **MOISTURE CONCERNS**

Normal limits for moisture vapor transmission for Hybri-Flex 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](http://www.dur-a-flex.com) for complete details.

### **CHEMICAL RESISTANCE**

HYBRI-FLEX MC has excellent resistance to organic and inorganic acids, alkalis, fuel and hydraulic oils, as well as aromatic and aliphatic hydrocarbons. Refer to the Chemical Resistance Chart on our website or consult with our technical staff for non-listed materials.

### **CLEANING**

Regular scrubbing will maintain these systems in serviceable condition. However, certain textures and service environments require specific procedures. Please refer to the master Cleaning Guide on our website for more information.

### **CAUTION**

Adequate cross ventilation should be provided. Read, understand and follow Safety Data Sheets and Application Instructions for 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 Safety Data Sheet is read and understood.*