

## HYBRI-FLEX<sup>®</sup> MQ

### DESCRIPTION

HYBRI-FLEX MQ is a 100% solids, color quartz system composed of a 1/8" POLY-CRETE MD SL body coat with a decorative quartz broadcast. It uses a 16 mil CRYL-A-GLAZE G201 broadcast coat, and two 16 mil CRYL-A-TOP T301 topcoats yielding a nominal system thickness of 1/4".

### BENEFITS

- VOC Compliant
- CFIA Registered
- Contributes to LEED Credits
- Meets USDA, FDA, ADA guidelines
- 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.

### IMPORTANT: POOL DECK APPLICATIONS

When used for pool deck applications, only the **standard slip-resistant texture** should be used. A 4' x 4' test patch for customer approval prior to installation is highly recommended. Every pool deck installation **must** be registered with a Dur-A-Flex, Inc. Sales representative at the completion of installation and before the pool deck is open for use. These forms can be found in the Technical Catalog in the Master Documents section or in the Contractor Center on our website.

### TYPICAL USES

HYBRI-FLEX MQ 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
- Pool Decks

### COLORS

HYBRI-FLEX MQ is available in blended and solid colors and in two sizes (Q11 and Q28). Refer to Quartz Color Blends Selector Chart for available quartz blends.

### 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 MQ 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 quartz aggregate is broadcast to excess to achieve the desired profile. Allow a minimum of 6 hours for the Base Coat to cure before sweeping, sanding or vacuuming. Apply a second quartz 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 Application Instructions on our website for a detailed installation procedure.

# **HYBRI-FLEX MQ**

## **TECHNICAL INFORMATION**

Physical Property	Test Method	Result
Percent Reactive		100%
Hardness (Shore D)	ASTM D-2240	88 – 92
Compressive Strength	ASTM C-109	8,300 psi
Tensile Strength	ASTM D-638	2,000 psi
	ASTM D-307	1,350 psi
Tensile Elongation	ASTM D-638	7.50%
Flexural Strength	ASTM D-790	3,700 psi
	ASTM C-580	2,700 psi
Flexural Module of Elasticity	ASTM D-790	$4.7 \times 10^5$
Linear Expansion	ASTM D-696	$3.5 \times 10^{-5}$
Bond Strength to Concrete		400 psi substrate fails
Indentation	MIL- D-3134	.025 max
Impact Resistance	ASTM D-2794	>160
Water Absorption	ASTM D-570	0.04%
Heat Resistance Limitation	Intermittent	160°F
	Continuous	140°F
Flammability	ASTM D-635	Self Extinguishing
Abrasion Resistance (CS17 Wheel 1000 GM Load 1000 Cycles)	ASTM D-4060	21 mg. loss
Coefficient of Friction	ASTM D-2047	>0.6
VOC Content		< 100 g/l

### **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.

### **JOINT GUIDELINES**

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

### **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 MQ 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.*