



HYBRI-FLEX 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.

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.

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 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 ASTM D-307 | 2,000 psi 1,350 psi |
| Tensile Elongation | ASTM D-638 | 7.50% |
| Flexural Strength | ASTM D-790 ASTM C-580 | 3,700 psi 2,700 psi |
| Flexural Module of Elasticity | ASTM D-790 | 4.7 x 10 ⁵ |
| Linear Expansion | ASTM D-696 | 3.5 x 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 Continuous | 160°F 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 | |
| - Standard Finish | | 0.7 |
| - Smooth Finish | | 0.5 |
| VOC Content | | < 100 g/l |

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 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. Contact the Dur-A-Flex Technical Department for questions about specific chemicals.

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 Material 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 Material Safety Data Sheet is read and understood.