

## **HYBRI-FLEX<sup>®</sup> EQ**

### **DESCRIPTION**

HYBRI-FLEX EQ is a 100% solids low odor color quartz system composed of a 1/8" POLY-CRETE MD SL body coat with a decorative quartz broadcast. It uses a DUR-A-GLAZE #4 broadcast coat, DUR-A-GLAZE #4 grout coat, and an ARMOR TOP topcoat yielding a total nominal system thickness of 1/4".

### **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.

### **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 EQ 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.

- Pharmaceutical Plants
- Manufacturing Areas
- Warehouses
- Restaurants
- Pool Decks

### **COLORS**

HYBRI-FLEX EQ 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. DUR-A-GLAZE #4 is available 1 and 5-gallon cans and 50-gallon drums. ARMOR TOP is available in pre-measured kits. HYBRI-FLEX EQ 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 DUR-A-GLAZE #4. Apply the DUR-A-GLAZE #4 coats to achieve the required texture. Finish with a top coat of ARMOR TOP. 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 EQ

## TECHNICAL INFORMATION

Physical Property	Test Method	Result	
Hardness (Shore D)	ASTM D-2240	75-80	
Compressive Strength	ASTM D-695 ASTM C-579	17,500 psi 12,500 psi	
Tensile Strength	ASTM D-638 ASTM C-307	4,000 psi 2,600 psi	
Tensile Elongation	ASTM D-638	7.50%	
Flexural Strength	ASTM D-790 ASTM C-580	6,250 psi 4,500 psi	
Flexural Modulus of Elasticity	ASTM D-790	$6.2 \times 10^5$	
Linear Expansion	ASTM D-696	$2 \times 10^{-5}$	
Bond Strength to Concrete	ASTM D-4541	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		140°F - 200°F	
Flammability	ASTM D-635 ASTM E648	Self Extinguishing Class I	
Flame Spread/NFPA 101	ASTM E-84	Class A	
Taber Abrasion Resistance A&B	ASTM D 4060, 1000g load, 1000 cycles, CS-17 wheel after full cure	<u>Gloss finish</u> w/grit - 4 mg. loss no grit - 10 mg. loss	<u>Satin finish</u> w/grit - 8 mg. loss no grit - 12 mg. loss
Noise Reduction Coefficient	ASTM C-423	0.05	
Coefficient of Friction	ASTM D-2047	>0.6	
VOC Content	Base coat <5g/l	Armor Top 0 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](http://www.dur-a-flex.com) for complete details

### CHEMICAL RESISTANCE

HYBRI-FLEX EQ 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 or refer to the Chemical Resistance Chart found in the Contractor Center on our website.

### 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

Read, understand and follow 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

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