

## **HYBRI-FLEX EC**

### **DESCRIPTION**

HYBRI-FLEX EC is a decorative chip system composed of an 1/8" POLY-CRETE SL body coat with a decorative chip broadcast. It uses a DUR-A-GLAZE #4 broadcast coat, a DUR-A-GLAZE #4 grout coat, and an ARMOR TOP topcoat yielding a total nominal system thickness of 1/8" - 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 EC is to be installed over concrete, and is unaffected by thermal cycling.

- Pharmaceutical Plants
- Manufacturing Areas
- Laboratories
- Retail
- Restrooms
- Locker rooms

### **COLORS**

HYBRI-FLEX EC is available with standard and custom blended colors as well as earthstone chips. All are available in two sizes (Macro and Micro). Refer to Chip Blends Selector Chart for available blends.

### **PACKAGING / STORAGE CONDITIONS**

POLY-CRETE 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. The Decorative chips are available in 10lb or 40lb boxes. HYBRI-FLEX EC 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 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 and the proper sized colored chip blend is broadcast to excess to achieve the desired look. Allow a minimum of 6 hours for the Base Coat to cure before sweeping, sanding or vacuuming. A second chip broadcast is delivered into DUR-A-GLAZE #4. Apply DUR-A-GLAZE #4 to achieve the required texture. Finish with a top coat of ARMOR TOP. See Application Instructions on our website for detailed installation procedures.

### **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 on our website for complete details.

## CHEMICAL RESISTANCE

HYBRI-FLEX EC 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 specific questions about 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

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.

HYBRI-FLEX EC		
TECHNICAL INFORMATION		
Physical Property	Test Method	Result
Hardness (Shore D)	ASTM D-2240	75-80
Water Absorption	ASTM D-570	0.04%
Flammability	ASTM D-635	Self Extinguishing
Critical Radiant Flux	ASTM E-648	Class II
Tensile Strength	ASTM D-638	3,700 psi
Flexural Strength	ASTM D-790	4,700 psi
	BS EN 13892-2	18 N/mm <sup>2</sup>
Compressive Strength	ASTM D-695	16,000 psi
	BS EN 13892-2	44 N/mm <sup>2</sup>
Indentation	MIL D-3134	.050 inches
Impact Resistance	ASTM D-2794	>160
Bond Strength to Concrete	ASTM D-4541	400 psi substrate fails
Elevated Temperature	MIL D-3134	No slip or flow
Thermal Shock, 50 cycles of immersion in chilled & boiling water	MIL F-52505	No cracking or loss of adhesion
Noise Reduction Coefficient	ASTM C-423	0.05
Taber Abrasion Resistance A&B	ASTM D 4060, 1000 g 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
Abrasion Resistance	BS EN 13892-4	AR 0.5
Static Coefficient of Friction*	ANSI B101.1	>0.6
Dynamic Coefficient of Friction - Wet*	ANSI A326.3	>0.42
60° Gloss	ASTM D-523	Gloss: 75+/-10 Satin: 50+/-10
VOC Content		<5 g/L

\*Dur-A-Flex flooring systems can be built to meet or exceed the requirements of Static or Dynamic Coefficient of Friction testing per installation. Contact your Dur-A-Flex territory sales manager or tech representative for more information on alternative textures, grit/grip additives, or smooth coatings for your specific environment. A sample should always be obtained and tested prior to purchase for any non-slip flooring system.

### IMPORTANT!

Before using DUR-A-FLEX products, read and understand its accompanying Safety Data Sheet & Application Instructions for important safety information.

STANDARD TERMS AND CONDITIONS OF SALE, INCLUDING STANDARD WARRANTY APPLY - VISIT [DUR-A-FLEX.COM](http://DUR-A-FLEX.COM) FOR THE LATEST VERSION