PERFORMANCE FLOORING SOLUTIONS
DUR-A-FLEX® Inc.
EPOXIES • MMA • URETHANES
COLORED QUARTZ AGGREGATES

PRODUCT DATA SHEET

95 Goodwin Street
East Hartford, CT 06108
Tel: 860-528-9838 • Toll Free 800-253-3539 • Fax: 860-528-2802 • Internet: www.dur-a-flex.com • E-Mail: info@dur-a-flex.com

HYBRI-FLEX EC

DESCRIPTION

HYBRI-FLEX EC is a decorative chip system composed of an 1/8" POLY-CRETE MD 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 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

COLORS

HYBRI-FLEX EC is available in standard and custom (Macro only) blended colors and in two sizes (Macro and Micro). Refer to Chip Blends Selector Chart for available quartz blends.

TYPICAL USES

HYBRI-FLEX EC 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
- Laboratories
- Retail
- Pool Decks

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"** 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 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**" for detailed installation procedures.

LIMITATIONS

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

STORAGE CONDITIONS

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.

PACKAGING

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.

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.

"Warranties: Seller warrants that its goods, as described on the face hereof, are free from any defects in material or workmanship. Seller makes no other warranty, express or implied, and all implied warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Seller shall not be liable for prospective profits or special indirect or consequential damages. Seller's sole liability and buyer's exclusive remedy for breach of any warranty as expressly limited, at seller's option, to replacement at the original F.O.B. point or refund of purchase price. Seller shall not be responsible for any claim resulting from failure to utilize product in the manner in which it was intended and in accordance with instruction provided for use of product. Any claim for breach of warranty shall be deemed waived unless buyer shall give seller written notice of such claim within sixty (60) days after delivery and shall allow seller reasonable opportunity to investigate claim and inspect product."

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
Flame Spread / NFPA-101	ASTM E-84	Class A
Tensile Strength	ASTM D-638	3,700 psi
Flexural Strength	ASTM D-790	4,700 psi
Compressive Strength	ASTM D-695	16,000 psi
Indentation	ML D-3134	0.50
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
UV Resistance	MIL F-52505	No chalking or loss of adhesion
Abrasion Resistance CS-17 Wheel, Wgt. Loss, 1000 GM Load 1000 cycles	ASTM D-4060	24 mg.loss
VOC Content	Base coat, Body coat 0 gm/l VOC	Armor Top 74 gm/L VOC

MOISTURE CONCERNS

Please refer to the Floor Evaluation Flow Chart in the Contractor's Center of our website for a step-by-step process to determine the condition of the concrete.

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.

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.

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"** 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.

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