

HYBRI-FLEX EB

DESCRIPTION

HYBRI-FLEX EB is a solid color, natural quartz system composed of a 1/8" POLY-CRETE MD SL body coat with a natural quartz broadcast, a DUR-A-GLAZE #4 broadcast coat, a SHOP FLOOR grout coat, and either a pigmented POLY-THANE #2 HIGH SOLIDS with ADD-A-COLOR #4, or 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 EB 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
- Main Traffic Aisles

- Automotive Service Areas
- Pool Decks

COLORS

HYBRI-FLEX EB is available in variety of colors. Please refer to the Standard Color Chart on our website. Custom colors are available upon request.

PACKAGING & STORAGE CONDITIONS

POLY-CRETE MD/SL is available in pre-measured kits that consist of resin, hardener and aggregate. SHOP FLOOR is available in 1 and 5 gallon cans and 50 gallon drums. POLY-THANE #2 HIGH SOLIDS is available in 1 and 5-gallon cans. ARMOR TOP hardener is provided in 1-gallon cans and the resin is provided in 1-quart cans

HYBRI-FLEX EB 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 SHOP FLOOR to deliver second broadcast and as a grout coat over the second broadcast. Finish with a top coat of pigmented POLY-THANE #2 HIGH SOLIDS or pigmented 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.

HYBRI-FLEX EB

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	6.2×10^5
Linear Expansion	ASTM D-696	2×10^{-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	Self Extinguishing
Flame Spread/NFPA 101	ASTM E-84	Class A
Noise Reduction Coefficient	ASTM C-423	0.05
Taber Abrasion Resistance A&B	ASTM D 4060, 1000g load, 1000 cycles, CS-17 wheel after full cure	<u>Gloss finish</u> <u>Satin finish</u> w/grit - 4 mg. loss w/grit – 8 mg. loss no grit - 10 mg. loss no grit – 12 mg. loss
Coefficient of Friction	ASTM D-2047	>0.6
VOC Content	Base coat <5g/l	Pigmented Armor Top <100g/l

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CHEMICAL RESISTANCE

HYBRI-FLEX EB 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.

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.

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.

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 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 Material Safety Data Sheet is read and understood.