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## PRODUCT DATA SHEET

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# **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. It also uses 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  $60^{\circ}$ F and  $85^{\circ}$ F. Substrate must be clean, sound and dry.

## 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.

## 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.

"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, but in no event will seller's liability exceed the total purchase price of the defective product. 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 EB		
TECHNICAL INFORMATION		
Physical Property	Test Method	Result
Hardness (Shore D)	ASTM D-2240	75-80
Compressive Strength	ASTM D-695	17,500 psi
	ASTM C-579	12,500 psi
Tensile Strength	ASTM D-638	4,000 psi
	ASTM C-307	2,600 psi
Tensile Elongation	ASTM D-638	7.50%
Flexural Strength	ASTM D-790	6,250 psi
	ASTM C-580	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	ML 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	ASTM D 4060, 1000g load, 1000	Gloss finish Satin finish
A&B	cycles, CS-17 wheel after full	w/grit - 4 mg. loss w/grit - 8 mg. loss
	cure	no grit - 10 mg. loss no grit – 12 mg. loss
Coefficient of Friction	ASTM D-2047	
Standard Slip-Resistant		0.9
Orange Peel		0.8
Smooth		0.7
VOC Content	Base coat <5g/l	Pigmented Armor Top <100g/l

## 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 <u>www.dur-a-flex.com</u> for complete details

## **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.