

## HYBRI-FLEX AB

### DESCRIPTION

HYBRI-FLEX AB is a 100% solids, low-odor, solid color, natural quartz system composed of a 1/8" POLY-CRETE SL body coat with a natural flintshot quartz broadcast, a SHOP FLOOR broadcast coat, and two pigmented ACCELERA topcoats yielding a total system thickness of 1/4".

### BENEFITS

- VOC Compliant
- Low Odor
- 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 AB 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.

- Aesthetic Considerations
- Malls
- Hospitals
- Labs
- Commercial Businesses

### COLORS

HYBRI-FLEX AB is available in a variety of standard colors. Refer to the ACCELERA Standard Color Chart on our website.

### PACKAGING & STORAGE CONDITIONS

POLY-CRETE SL is available in pre-measured kits that consists of resin, hardener and aggregate. SHOP FLOOR is packaged in 1, 5, and 50 gallon containers. ACCELERA is available in pre-measured kits. HYBRI-FLEX AB 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 into which the flintshot 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. A second flintshot quartz broadcast is delivered into SHOP FLOOR. Apply two pigmented ACCELERA top coats to achieve the required finish. 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 refer to the DUR-A-FLEX website 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.

# HYBRI-FLEX AB

## TECHNICAL INFORMATION

| Physical Property  | Test Method     | Result                    |
|--|-----------------|---------------------------|
| 60 Gloss   | ASTM D-523      | 90+                       |
| Impact Resistance  | ASTM D-2794     | >160                      |
| Bond Strength to Concrete                                  | ASTM D-4541     | 400 psi (substrate fails) |
| Compressive Strength                                       | ASTM D-695      | 17,500 psi                |
| Solids by volume   |                 | 100                       |
| Adhesion   | ASTM D-4541     | 400 psi                   |
| Hardness   | ASTM D-3363     | 3H                        |
|  | ASTM D-2134     | 40+                       |
| QUV  | UVB-373/1500hrs | >90% gloss retention      |
| Flexibility (1/4: Cylindrical mandrel)                     | ASTM D-1737     | Pass                      |
| Elongation   | ASTM D-2370     | 9%                        |
| Tensile Strength   | ASTM D-2370     | 7,000 psi                 |
| Coefficient of Friction                                    | ASTM D-2047     | >0.6                      |
| Abrasion Resistance<br>CS17 wheel (1000g load) 1000 Cycles | ASTM D-4060     | 27 mg loss                |
| Flame Spread Index   | ASTM E84        | Class B (Type II)         |
| VOC Content  |                 | 0 g/l                     |

### 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 AB 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.

### 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.***