

## **POLY-CRETE SLB**

### **DESCRIPTION**

POLY-CRETE SLB (self leveling broadcast) is a 100% solids aromatic cementitious urethane system with a quartz aggregate broadcast. This system is typically installed at a nominal thickness of 3/16 inches. This should be determined by service, cleaning temperatures, severity of traffic, point impact and loadings. A topcoat(s) of DUR-A-FLEX epoxy, urethane or methyl methacrylate is used depending on performance requirements.

### **BENEFITS**

- VOC Compliant
- CA 01350 Air Quality Compliant
- ADA Compliant
- Leed Credit Points Available
- Meets USDA, FDA and CFIA standards
- Hygienic - Does Not Harbor Bacteria
- High Chemical & Abrasion Resistance
- Self-Priming
- Wide Service Temperature Ranges
- Can Be Applied To 7-14 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**

POLY-CRETE SLB is designed to protect concrete, polymer reinforced screeds and water-resistant plywood from chemical attack, corrosion, impact and thermal shock. It is also unaffected by freeze/thaw cycles.

- Wet Areas
- Commercial Kitchens and Restaurants
- Meat/Poultry and Dairy Processing
- Pharmaceutical Plants
- Processing Areas
- Exterior Applications
- Automotive Service Bays

### **COLORS**

Refer to the Color Selection Charts wide range of standard colors, special color matches may be available.

### **PACKAGING & STORAGE CONDITIONS**

POLY-CRETE SLB is available in pre-measured kits that cover 55 Sq Ft at 1/8 inch for 3/16 inch finished

thickness after broadcast and topcoat. Topcoat resins are packaged in 1 gallon, 5 gallon and 50 gallon quantities. POLY-CRETE COLOR-FAST, TF PLUS and ARMOR TOP topcoats are supplied in pre-measured kits. POLY-CRETE SLB must be stored dry. Do not use partial bags of aggregate. Do not allow resins to freeze. Every POLY-CRETE product will be shipped with a lot number on the label. The first two digits indicate the year; the second two show the month, the third two will be the day. The shelf life is 6 months from the date on the label 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. When broadcasting F60 aggregate or if the substrate is very porous the substrate must be primed to prevent resins from being absorbed prematurely by substrate. Please refer to the Surface Preparation Guide and system Application Instructions on our website for more information.

### **APPLICATION METHOD**

POLY-CRETE SLB 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 8 hours for the Base Coat to cure before sweeping, sanding or vacuuming. Apply the desired pigmented coat(s) to achieve the required finish. POLY-CRETE TF PLUS, DUR-A-GLAZE NOVOLAC, and DUR-A-GLAZE SHOP FLOOR with ARMOR TOP can be used to topcoat POLY-CRETE SLB systems.

### **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** For complete details please refer to the Joint Guidelines on our website.

# POLY-CRETE SLB (with TOPCOAT)

## TECHNICAL INFORMATION

		POLY-CRETE TF PLUS	DUR-A-GLAZE NOVOLAC	SHOP FLOOR w/ARMOR TOP
Cure Time @ 70°F Full Service		3-5 Day	24 hours	See application instructions
Mix Ratio (by volume)		3 Component Kit	1 part hardener, 2 parts resin	See application instructions
Working time @70°F		15 minutes	30 minutes	See application instructions
Adhesion to Concrete		> 400 psi, concrete fails before loss of bond	> 400 psi, concrete fails before loss of bond	> 400 psi, concrete fails before loss of bond
Heat Resistance Limit		220 F	250 F	200 F
Available Color		Blue, Green, Charcoal, Grey, Dark Grey, Red, Chestnut	Medium Grey, Tile Red, Charcoal Grey, Slate Grey, Concrete Grey, Clear	See Standard Color Chart
Physical Property	Test Method	POLY-CRETE TF PLUS	DUR-A-GLAZE NOVOLAC	SHOP FLOOR w/ARMOR TOP
Hardness (Shore D)	ASTM D 2240	85 D	86 – 90 D	75 – 80 D
Compressive Strength	ASTM C 579	7,250 psi	14,000 psi	12,500 psi
Tensile Strength	ASTM D 638	750 psi	2,500 psi	4,000 psi
Impact Resistance	ASTM D-3134	Pass	Pass	Pass
Flexural Strength	ASTM D 790	4,400 psi	5,500 psi	6,250 psi
Abrasion Resistance CS17 Wheel 1000 GM Load 1,000 Cycles		ASTM C 501 40 mg loss	ASTM D 1044 0.075 gm loss	ASTM D 4060 4 mg loss (gloss finish, with grit)
Coefficient of Friction  Standard Slip-Resistant	ASTM D 2047	(Passes ADA recommendations) >0.6	>0.6	>0.6
VOC Content		0 g/L	0 g/L	0 g/L
Indoor Air Quality			CA 01350 Compliant	CA 01350 Compliant
Water Absorption	ATSM D 570		0.05%	0.04%

### MOISTURE CONCERNS

Normal limits for moisture vapor transmission for Poly-Crete 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

POLY-CRETE SLB has excellent resistance to organic and inorganic acids, alkalis, fuel and hydraulic oils, as well as aromatic and aliphatic solvents. See Chemical Resistance Chart for resistance with specific topcoats.

### 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

Adequate cross ventilation should be provided. 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.*