

## **POLY-CRETE SLC**

### **DESCRIPTION**

POLY-CRETE SLC (self leveling chip) is a 100% solids aromatic cementitious urethane system with decorative chip broadcast. The system is typically installed at a nominal thickness of 3/16 inch. This should be determined by service, cleaning temperatures, severity of traffic, point impact and loadings. POLY-CRETE SLC uses colored chips and is top coated with DUR-A-FLEX epoxy, urethane or methyl methacrylate depending on performance requirements.

### **BENEFITS**

- VOC Compliant
- ADA Compliant
- Leed Credit Points Available
- Meets USDA, FDA and CFIA Standards
- Hygienic - Does Not Harbor Bacteria
- High Chemical Resistance
- High Abrasion Resistance
- Self-Priming
- Wide Service Temperature, -100 to 180oF
- Can Be Installed With Moisture Levels Up To 20 lbs/1,000 sf/24 hrs or 99% RH
- Can Be Applied To 7-14 Day Old Concrete
- CA 01350 Compliant

### **COLORS**

The decorative colored chips that are used in the POLY-CRETE SLC system are available in a MACRO and MICRO size. Refer to the Color Selection Chart for the standard chip blends. Customs blends are available.

### **TYPICAL USES**

POLY-CRETE SLC 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.

- Schools
- Aesthetic Concerns
- Areas where moisture is a concern
- Exterior Applications
- Manufacturing Facilities
- Hospitals
- Pharmaceutical Plants

### **SURFACE PREPARATION**

This product requires substrate 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/SPREAD RATES**

POLY-CRETE SLC is applied to a properly prepared area at the required thickness using a "V" notched squeegee. The freshly placed material is then looped rolled into which the color chips are broadcast to excess. Allow a minimum of 8 hours for the base coat to cure before sweeping, brushing or vacuuming. Apply the desired clear topcoat(s) to achieve the required finish.

### **LIMITATIONS**

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

### **PACKAGING**

POLY-CRETE SLC is available in pre-measured kits that cover 55 Sq Ft. at 1/8 inch for 3/16 inch finished thickness after broadcast. Topcoat resins are packaged in 1 gallon, 5 gallon and 50 gallon quantities.

### **CHEMICAL RESISTANCE**

POLY-CRETE SLC has excellent resistance to organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic solvents.

### **STORAGE CONDITIONS**

POLY-CRETE SLC must be stored dry. Do not allow resins to freeze. The shelf life of this product is 6 months from the date on the original unopened containers.

### **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.

## **DRAWINGS AND DETAILS**

Standard CAD drawings and details are available for coves, drains, breaches, transitions, etc. Please refer to the master "Drawings and Details" on our website for actual drawings.

## **GUIDE SPECIFICATIONS**

This product is part of the DUR-A-FLEX family of polymer systems. Three part guide specs can be found in the Architect Center of our website.

## **CLEANING**

Regular scrubbing will maintain these systems in serviceable condition as long as contamination is not allowed to build. However, certain textures and service environments require

specific procedures. Please refer to the "Cleaning Guidelines" 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.

### **POLY-CRETE SLC WITH DUR-A-GLAZE #4 WITH ARMOR TOP TECHNICAL INFORMATION**

Cure Time @ 70°F		
Light Traffic		8-10 hours
Light Wheel Traffic		16 hours
Heavy Duty Traffic		48 hours
Full Service		3-5 days
Color		Refer to Macro and Micro Chip Color Selection Chart
Pot Life - 1 gallon @ 70°F		15 minutes
Adhesion Concrete		> 400 psi, concrete fails before loss of bond
Service Temperature		-100 to 180°F
<b>Physical Property</b>	<b>Test Method</b>	<b>Result</b>
Hardness (Shore D)	ASTM D-2240	75-80
Compressive Strength	ASTM C-579	12,500 psi
Tensile Strength	ASTM D-638	4,000 psi
Flexural Strength	ASTM D-790	6,250 psi
Adhesion to Concrete	ASTM D-4541	>400 psi substrate fails
Impact Resistance	MIL-D-3134	>160 in-lb
Abrasion Resistance CS-17 Wheel 1000 GM Load 1,000 Cycles	ASTM D-4060	4 mg loss (gloss finish with grit)
Static Coefficient of Friction	ASTM D-2047	>0.6
Heat Resistance Limit		200°F
Water Absorption	ASTM D-570	0.04%
VOC Content		0 g/L
Indoor Air Quality		Compliant to CA 01350 - CDPH v1.1-2010

#### **IMPORTANT!**

*Before using DUR-A-FLEX products, read and understand its accompanying Safety Data Sheet & Application Instructions for important safety information.*

STANDARD TERMS AND CONDITIONS OF SALE, INCLUDING STANDARD WARRANTY APPLY - VISIT **DUR-A-FLEX.COM** FOR THE LATEST VERSION