

## **DUR-A-GARD SL**

### **DESCRIPTION**

DUR-A-GARD SL is a combination of pigmented SHOP FLOOR 100% solids epoxy and a special blend of natural quartz aggregates and fillers. The epoxy and aggregates are fused together during application to form an extremely durable, easy to clean, monolithic surface. It protects concrete floors from chemical attack and industrial abuse, as well as restores damaged, old concrete to better than new condition. This floor system was designed for ultimate cleanability, and for areas where dirt or dust cannot be tolerated. The high gloss tile-like finish is stain resistant and virtually unaffected by oil, grease, gasoline, strong detergents, salt, etc.

### **BENEFITS**

- Stain Resistant
- Easy to Clean
- Multiple Thicknesses
- Durable
- Minimal Downtime
- Abrasion Resistant

### **LIMITATIONS**

*To achieve proper hiding the color White must be applied at a thickness of 100 mils.* This product is best suited for application in temperatures between 60°F and 90°F. Substrate must be clean, sound, and dry. Certain colors appear white when scratched. Smoke Blue should be top coated with Armor-Top to reduce the “White” appearance of scratches.

### **TYPICAL USES**

DUR-A-GARD SL is best suited for application over concrete but can be applied to other properly prepared substrates such as wood or brick pavers.

- Pharmaceutical Facilities
- Plastics Facilities
- Laboratories
- Clean Rooms
- Assembly Areas
- Light Manufacturing

### **COLORS**

DUR-A-GARD SL is available in 15 standard colors (see Limitations). Please refer to the Standard Color Chart on our website.

### **PACKAGING**

DUR-A-GARD SL epoxy is available in 1-gallon cans, 5-gallon pails and 50-gallon drums. The filler is available in 50 lb bags and the aggregate is available in 100 lb bags. DUR-A-GARD SL components have a shelf life of one year in the original unopened containers.

### **SURFACE PREPARATION**

This product requires preparation in order to perform as expected. Substrate must be profiled, clean, sound, and dry. Substrate must be primed with DUR-A-SHIELD, DUR-A-GLAZE #4 WB, or DUR-A-GLAZE TIE-COAT. Please refer to the master Surface Preparation Guide on our website for more information.

### **APPLICATION METHOD / SPREAD RATES**

DUR-A-GARD SL is applied with a notched squeegee or gage rake. DUR-A-GARD SL will yield a 35 – 100 mil thickness in one application depending on substrate type and condition. See DUR-A-GARD SL application instruction sheet for complete instructions.

### **GUIDE SPECIFICATIONS**

This product is part of the DUR-A-FLEX family of polymer systems. Three part guide specifications can be found on our website.

### **DRAWINGS AND DETAILS**

Standard CAD drawings and details are available for coves, drains, breaches, transitions on our website.

### **JOINT GUIDELINES**

Refer to the Joint Guidelines for complete details on our website.

### **MOISTURE CONCERNS**

Normal limits for moisture vapor transmission for epoxy floor systems are 3 lbs./1,000 sq. ft./24 hour using the calcium chloride test per ASTM F-1869 or 75% 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.

# DUR-A-GARD S/L

## TECHNICAL INFORMATION

Color	Available In All Standard Colors	
Mix Ratio (by volume)	1 Part Hardener To 2 Parts Resin	
Viscosity at 70° F	700 cps	
Pot life at 70° F	20 – 25 Minutes	
Cure Time, Touch Dry at 70° F	4 – 6 Hours	
Cured Film Thickness	16 Mils at 100 Sq. Ft. / Gallon Spread Rate	
Toxicity	Non – Toxic	
Physical Property	Test Method	Result
Hardness (Shore D)	ASTM D-2240	70-80
Compressive Strength	ASTM D-695 ASTM C-579	16,000 psi 10,500 psi
Tensile Strength	ASTM D-638 ASTM C-307	3,000 psi 1,950 psi
Tensile Elongation	ASTM D-638	7.50%
Flexural Strength	ASTM D-790 ASTM C-580	4,000 psi 2,900 psi
Flexural Modulus of Elasticity	ASTM D-790	$5.5 \times 10^5$
Linear Expansion	ASTM D-696	$2 \times 10^{-5}$
Bond Strength to Concrete	ASTM D-4541	400 psi substrate fails
Indentation	MIL D-3134	.025 MAX
Impact Resistance	MIL D-3134	Pass
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
Abrasion Resistance CS17 Wheel 1000 GM Load 1000 Cycles	ASTM D-4060	35 mg loss
Coefficient of Friction Orange Peel Smooth	ASTM D-2047	0.8 0.7
VOC Content		0 g/l

### CLEANING

This product is considered to be a low maintenance flooring solution however certain textures and service environments require specific procedures. Please refer to the master Cleaning Guide on our website.

### CHEMICAL RESISTANCE

This product is resistant to most common chemicals. Please refer to the master Chemical Resistance Chart on our website for actual resistance to specific chemicals/reagents.

### CAUTION

**Slight batch-to-batch color variations may occur. When ordering to match a previous color, inquire if the same batch number or quality control number is still available. Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed. KEEP OUT OF REACH OF CHILDRE**

*Before using any DUR-A-FLEX, Inc. product, be sure the Material Safety Data Sheet is read and understood.*