

## **DUR-A-QUARTZ “TM” EPOXY FLOORING (Trowel Method)**

### **DESCRIPTION**

DUR-A-QUARTZ “TM” Epoxy Flooring is a heavy-duty, decorative, trowel applied, seamless flooring/resurfacing mortar comprised of specially formulated, clear, two-component, 100% solids epoxy and a special quartz aggregate blend. It is designed to decorate and protect new floors from chemical deterioration and abuse from tough traffic. DUR-A-QUARTZ “TM” adheres tenaciously to properly prepared concrete, metal, tile, brick pavers, and wood.

### **BENEFITS**

- Little or No “Down Time”.
- Easy to Maintain.
- Chemical Resistant.
- Serves Long Life.
- Eliminates Waxing or Stripping.

### **LIMITATIONS**

This product is best suited for application in temperatures between 55°F and 95°F. Substrate must be clean, sound, and dry. Some trowel marks may be evident, especially on large, open areas.

### **TYPICAL USES**

- Laboratories
- Cafeterias
- Showrooms
- Classrooms
- Lobbies
- Busy Corridors
- Pharmaceutical Plants
- Restrooms
- Industrial Plants

### **COLORS**

DUR-A-QUARTZ “TM” is available in the same blends as DUR-A-QUARTZ “BM”. Refer to the DUR-A-QUARTZ Color Selector Chart for these standard blends.

### **PACKAGING**

DUR-A-QUARTZ “TM” is available in 1-gallon cans, 5-gallon pails and 50-gallon drums. DUR-A-QUARTZ aggregate is available in 50 lb bags.

### **SURFACE PREPARATION**

This product requires preparation in order to perform as expected. Substrate must be roughened, clean, sound, and dry. Please refer to the master Surface Preparation Guide on our website for more information.

### **APPLICATION METHOD**

DUR-A-QUARTZ “TM” is trowel applied. It is customarily applied at 1/8” or 3/16” thickness, but can be applied at 1/4” to fill and level an eroded or damaged concrete floor. The standard surface texture is smooth, but a slip-resistant grit can be added to the topcoat. A seamless sanitary cove base can be incorporated as an integral part of the flooring. See DUR-A-QUARTZ “TM” application instructions for complete details.

### **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 contact DUR-A-FLEX for actual drawings.

### **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.

### **CHEMICAL RESISTANCE**

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

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## TECHNICAL INFORMATION

Physical Property	Test Method	Result	
Hardness (Shore D)	ASTM D-2240	75-80	
Compressive Strength	ASTM D-695	17,500 psi	
Tensile Strength	ASTM F-638	4,000 psi	
Tensile Elongation	ASTM D-638	7.5%	
Flexural Strength	ASTM D-790	6,250 psi	
Coefficient of Linear Expansion in./in./degrees F	-12°F to 140°F ASTM D-696	20 x 10 <sup>-6</sup>	
Bond Strength to Concrete	ACI-403	335 psi, concrete fails	
Shear from Steel Plate	MIL D-3134	1,050 psi	
Indentation	MIL D-3134	.025	
Impact Resistance	MIL D-3134	No cracking or delamination	
Elevated Temperature	MIL D-3134	No slip or flow	
Water Absorption	ASTM D-570	0.04%	
Electrical Conductivity		Non-conductive	
Flammability	ASTM D-635	Self extinguishing	
Flame Spread / NFPA-101	ASTM E-84	Class A	
Abrasion Resistance Taber Abrader CS-17 wheels, 1000 gm. load, 1000 cycles	ASTM D-4060	<u>Satin finish</u> with grit – 8 mg. loss no grit – 12 mg. loss	<u>Gloss finish</u> with grit - 4 mg. loss no grit - 10 mg. loss
Coefficient of Friction	ASTM D-2047	>0.6	
Toxicity		Non-toxic, USDA approved	
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.

### SPECIAL PURPOSE FORMULA/CURE TIME

DUR-A-GLAZE #4 Water Clear hardener should be used throughout the system.

### CAUTION

**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 CHILDREN.**

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