

DUR-A-QUARTZ FLOOR SYSTEM

DESCRIPTION

DUR-A-QUARTZ EPOXY FLOORING is a combination of Q28 or Q11 Colored Quartz Aggregate fused together during application into a seamless surface, with specially formulated, high quality, clear, 100% solids, epoxy formulation. DUR-A-QUARTZ Epoxy Flooring will protect a new floor from industrial abuse and harsh chemical spillage, and will restore the old floor to a better than new condition. It is available in three different textures: standard slip resistant, orange peel and smooth.

BENEFITS

- Excellent Clarity
- Low Odor
- Meets USDA, FDA, OSHA standards
- Superior Adhesion
- Superior Chemical Resistance
- Easy Maintenance
- NFSI Certified
- CA 01350 Compliant

LIMITATIONS

This product is best suited for application in temperatures between 60° F and 90° F. Substrate must be clean, sound and dry. Custom quartz blends should stay within the color range of the existing standard blends. DUR-A-GLAZE #4 "Water Clear" or ULTRA CLEAR resin must be used for topcoats over DUR-A-QUARTZ aggregate to retain color clarity of floor. Eroded or spalled areas must be "filled and leveled" with an epoxy grout composed of DUR-A-GLAZE #4 and aggregate.

TYPICAL USES

DUR-A-QUARTZ Epoxy Flooring is designed for use wherever USDA, OSHA, FDA and EPA standards must be met. It can be applied on most any type of sound substrate including concrete, quarry tile, brick pavers, steel decks, plywood floors, etc. Typical areas of application:

- Pharmaceutical Plants
- Shower & Locker Rooms
- Laboratories
- Clean Rooms
- Animal Care Areas
- Chill Areas

COLORS

DUR-A-QUARTZ decorative aggregate is available in blended and solid colors and in two sizes. Color options are standard colors and custom color blends. Please refer to Quartz Color Selector Chart.

PACKAGING

DUR-A-QUARTZ Epoxy Flooring is available in DUR-A-GLAZE #4 **Resin/Hardener**: 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 profiled, clean, sound, and dry. Substrate must be primed with DUR-A-SHIELD, DUR-A-GLAZE WB PRIMER, or DUR-A-GLAZE TIE-COAT II. Please refer to the master Surface Preparation Guide on our website for more information.

APPLICATION METHOD/SPREAD RATE

DUR-A-QUARTZ is applied with a roller, squeegee or trowel. A typical yield at a nominal 1/8" thickness. Refer to application instructions for detailed procedure.

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TECHNICAL INFORMATION

Physical Property	Test Method	Result
Hardness (Shore D)	ASTM D-2240	75-80
Compressive Strength	ASTM D-695 ASTM C-579	17,500 psi 12,500 psi
Tensile Strength	ASTM D-638 ASTM C-307	4,000 psi 2,600 psi
Tensile Elongation	ASTM D-638	7.50%
Flexural Strength	ASTM D-790 ASTM C-580	6,250 psi 4,500 psi
Flexural Modulus of Elasticity	ASTM D-790	6.2×10^5
Linear Expansion	ASTM D-696	2×10^{-5}
Bond Strength to Concrete	ASTM D-4541	400 psi substrate fails
Indentation	ML D-3134	.025 MAX
Impact Resistance	ML 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	24 mg loss
Coefficient of Friction Standard Slip-Resistant Orange Peel Smooth	ASTM D-2047	0.9 0.8 0.7
VOC Content		0 g/l

*Pot Life is shorter at higher temperatures. Do not use below 55°F or above 95°F.

** Cold Cure Hardener to be used for applications between 40° and 55°F.

GUIDE SPECIFICATIONS

This product is part of the DUR-A-FLEX family of polymer systems. Please contact DUR-A-FLEX for three part guide specifications.

CHEMICAL RESISTANCE

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

DRAWINGS AND DETAILS

Standard CAD drawings and details are available for coves, drains, breaches, transitions, etc. Please contact DUR-A-FLEX for actual drawings.

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 for complete details.

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.

SPECIAL PURPOSE FORMULATIONS

DUR-A-GLAZE #4 “Regular” – For most typical installations under normal conditions.

DUR-A-GLAZE #4 “Fast” – Use for intermediate coats in room temperature areas where fast turnaround is desired. This will amber as a topcoat.

DUR-A-GLAZE #4 “Water Clear” - Ideal for topcoating quartz floors. Has excellent color retention. May be used in warm temperatures when longer pot life is required.

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.