

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

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.

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

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-POXY HIGH GLOSS, or DUR-A-GLAZE TIE-COAT. Please refer to the master “**Surface Preparation Guide**” 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 is approximately 30 Sq. Ft. per gallon of epoxy and 3/4 of a lb. of DUR-A-QUARTZ aggregate per Sq Ft. See DUR-A-QUARTZ BM application instruction sheet for complete instructions.

LIMITATIONS

This product is best suited for application in temperatures between 55° F and 95° 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.

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.

CHEMICAL RESISTANCE

This product is resistant to many common chemicals. Please refer to the master “**Chemical Resistance Chart**” for actual resistance to specific chemicals/reagents.

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.

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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.

SPECIAL PURPOSE FORMULATIONS

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

DUR-A-GLAZE #4 “Cold Cure” - For cold area applications when temperature cannot be maintained over 50°F, and when a more rapid cure is required at normal temperatures. This will amber as topcoat.

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.

DUR-A-GLAZE #4 “Damp Primer” - For use as a Prime Coat or a Base Coat on new concrete (28 to 120 days old) or freshly acid etched concrete, or when a surface cannot be dried thoroughly.

JOINT GUIDELINES

Refer to the [Joint Guidelines](#) for complete details on our website.

MOISTURE CONCERNS

Moisture vapor transmission in the slab should be measured prior to application of polymeric systems to ensure a long lasting, durable installation. Please refer to the master “**Moisture Guidelines**” for more information.

DRAWINGS AND DETAILS

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

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**”.

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.