

SHOP FLOOR

DESCRIPTION

SHOP FLOOR Epoxy Flooring is a combination of pigmented DUR-A-GLAZE SHOP FLOOR, a 100% solids epoxy and Flintshot, a natural quartz sand. The epoxy and the quartz aggregate are fused together during application into a monolithic surface that is extremely durable, thickness ranges from 1/16"- 1/4". SHOP FLOOR Epoxy Flooring is similar in application technique, durability and chemical resistance to the time tested DUR-A-QUARTZ Epoxy Flooring. It is available in three different textures; standard non-skid, orange peel and smooth.

BENEFITS

- Excellent Clarity
- Low Odor
- Meets USDA, FDA, OSHA standards
- Superior Adhesion
- Superior Chemical Resistance
- Easy Maintenance

LIMITATIONS

This product is best suited for application in temperatures between 60° F and 95° F. Substrate must be clean, sound and dry. Eroded or spalled areas must be "filled and leveled" with an epoxy grout composed of DUR-A-GLAZE #4 and aggregate.

TYPICAL USES

SHOP FLOOR Epoxy Flooring is designed for use wherever USDA, OSHA, FDA and EPA standards must be met. It can be applied on most sound substrates including concrete, quarry tile, brick pavers, steel decks, plywood floors, etc. It is ideally suited for heavy-duty industrial applications, particularly in areas requiring durability, easy maintenance, a high degree of sanitation, and high acid and chemical resistance. SHOP FLOOR Epoxy Flooring will protect a new concrete floor from industrial abuse and harsh chemical spillage, and it will restore deteriorated concrete into a better than new condition. Typical areas of application:

- Laboratories
- Traffic Aisles
- Machine Shops
- Walk In Coolers
- Clean Rooms
- Manufacturing Areas
- Fire Stations
- Pharmaceutical Plants
- Mechanical Rooms
- Animal Care Areas

COLORS

SHOP FLOOR is available in 15 standard colors. *The color White is only available for use with the DUR-A-GARD S/L 100 mil system.* Please refer to the Standard Color Chart on our website. Custom colors are available upon request.

PACKAGING

SHOP FLOOR is available in 1-gallon cans, 5-gallon pails, and 50-gallon drums. Flintshot quartz sand is available in 100 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 II, 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

SHOP FLOOR is applied with a roller, squeegee or trowel. A typical yield at 1/8" thickness is approximately 30 Sq Ft per gallon of epoxy and 3/4 lb of Flintshot aggregate per Sq Ft. See SHOP FLOOR application instruction sheet for complete instructions.

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.

JOINT GUIDELINES

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

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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
Coefficient of 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 B
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		8 g/l

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

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

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.

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.

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.

DUR-A-GLAZE #4 “Water Clear” - Ideal for top-coating 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.

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.