

SHOP FLOOR MR

DESCRIPTION

SHOP FLOOR MR Epoxy Flooring is a combination of ELAST-O-COAT waterproofing membrane, pigmented DUR-A-GLAZE SHOP FLOOR, a 100% solids epoxy and Flintshot, a natural quartz sand. It is ideal for **MECHANICAL ROOM** applications. 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 MR 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

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

COLORS

SHOP FLOOR MR is available in 15 standard colors. Please refer to our Standard Color Chart. Custom colors are available upon request.

TYPICAL USES

SHOP FLOOR MR 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, steel decks, plywood floors, etc. It is ideally suited for mechanical rooms and heavy-duty industrial applications, particularly in areas requiring waterproofing, durability, easy maintenance, a high degree of sanitation, and high acid and chemical resistance. SHOP FLOOR MR 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.

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 ELAST-O-COAT. Please refer to our Surface Preparation Guide on our website for more information.

APPLICATION METHOD/SPREAD RATE

SHOP FLOOR MR 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 Instructions for complete instructions.

LIMITATIONS

This product is best suited for application in temperatures between 60° F and 90° 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.

PACKAGING

ELAST-O-COAT and SHOP FLOOR are available in 1-gallon cans, 5-gallon pails, and 50-gallon drums. Flintshot quartz sand is available in 100 lb bags.

CHEMICAL RESISTANCE

This product is resistant to many common chemicals. Please refer to the Chemical Resistance Chart on our website 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 complete three part guide specs.

MOISTURE CONCERNS

Please refer to the Floor Evaluation Guidelines in the Contractor's Center of our website for a step-by-step process to determine the condition of the concrete.

JOINT GUIDELINES

Refer to the Joint Guidelines on our website 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 A
Abrasion Resistance CS17 Wheel 1000 GM Load 1000 Cycles (using ARMOR TOP urethane topcoat)	ASTM D-4060	Gloss Satin 4 mg loss 8 mg loss (w/grit) 10 mg loss 12 mg loss (w/o grit)
Coefficient of Friction	ASTM D-2047	>0.6
VOC Content		8 g/l

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

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

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.

DRAWINGS AND DETAILS

Standard CAD drawings and details are available for coves, drains, breaches, transitions, etc.

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 Cleaning Guide on the Dur-A-Flex website.

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 Safety Data Sheet is read and understood.

“Warranties: Seller warrants that its goods, as described on the face hereof, are free from any defects in material or workmanship. Seller makes no other warranty, express or implied, and all implied warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Seller shall not be liable for prospective profits or special indirect or consequential damages. Seller’s sole liability and buyer’s exclusive remedy for breach of any warranty as expressly limited, at seller’s option, to replacement at the original F.O.B. point or refund of purchase price. Seller shall not be responsible for any claim resulting from failure to utilize product in the manner in which it was intended and in accordance with instruction provided for use of product. Any claim for breach of warranty shall be deemed waived unless buyer shall give seller written notice of such claim within sixty (60) days after delivery and shall allow seller reasonable opportunity to investigate claim and inspect product.”