

DUR-A-CRETE

DESCRIPTION

DUR-A-CRETE is a heavy duty, trowel applied, seamless floor topping comprised of specially formulated two component, 100% solids epoxy resins and select graded colored sand aggregate. It is designed to repair deteriorated floors and to protect new floors from chemical deterioration and industrial abuse. DUR-A-CRETE adheres tenaciously to properly prepared concrete, quarry tile, ceramic tile and brick pavers. A seamless, sanitary, cove base can be incorporated into this system.

BENEFITS

- Fills and Levels Deteriorated Substrates
- Long Working Time
- Easy to Trowel
- No Odor
- Can Be Non-Skid or Smooth Texture

LIMITATIONS

This product is best suited for application in temperatures between 55°F and 95°F. Substrate must be clean, sound, and dry.

TYPICAL USES

DUR-A-CRETE is ideally suited for use where OSHA, USDA, and EPA standards must be met. Such as:

- Machine Shops
- Loading Docks
- Traffic Aisles
- Ramps
- Heavy Manufacturing Areas
- Spalled Joint Repair

COLORS

DUR-A-CRETE is natural but is available in 15 standard colors when mixed with SHOP-FLOOR liquids. Please refer to the Standard Color Chart on our website. Custom colors are available upon request.

PACKAGING

DUR-A-CRETE hardener and resin is available in 1-gallon cans, 5-gallon pails, and 50-gallon drums. DUR-A-GLAZE #4 is available in 1-gallon cans, 5-gallon pails and 50-gallon drums. DUR-A-CRETE TROWEL MIX aggregate is available in 40 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-CRETE is always hand or power troweled into a wet primer of DUR-A-GLAZE #4. It is customarily applied at 1/4" thickness but can be applied as thick as necessary to fill and level an eroded or spalled concrete floor.

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 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.

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TECHNICAL INFORMATION

Physical Property	Test Method	Result
Hardness (Shore D)	ASTM D-2240	80
Compressive Strength	ASTM D-695 ASTM C-579	17,500 psi 12,500 psi
Tensile Strength	ASTM D-638 ASTM C-307	2,500 psi 1,800 psi
Tensile Elongation	ASTM D-638	7.00%
Flexural Strength	ASTM D-790 ASTM C-580	(C-293) 5,900 psi 4,200 psi
Flexural Modulus of Elasticity	ASTM D-790	6.0×10^5
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	No indentation
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	18 mg loss
Coefficient of Friction Standard Slip-Resistant Orange Peel Smooth	ASTM D-2047	0.95 Unsealed 0.8 0.7
VOC Content		0 g/l

CLEANING

This product is considered a low maintenance flooring solution; however, certain textures and service environments do require certain procedures. Please refer to the master Cleaning Guide on our 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.

SPECIAL PURPOSES FORMULA

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 a top coat.

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 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.

DUR-A-GLAZE #4 “KF” – For areas where thermal cycling from 32°F to 200°F and exposure to food spillage is expected. Contains Bio-Pruf®.

DUR-A-GLAZE Novolac – For areas with exposure to high heat and/or high concentrations of acid or alkali.

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