

DUR-A-GARD 50/50

DESCRIPTION

DUR-A-GARD 50/50 epoxy coating is a pigmented, two component, low odor, 100% solids, thermosetting epoxy designed especially for flooring applications subjected to moderate traffic and chemicals. This coating is extremely durable, sanitary and easy to clean. The high gloss, tile-like finish is stain-resistant and virtually unaffected by oil, grease, gasoline, strong detergents and salt.

BENEFITS

- Stain Resistant
- Easy to Clean
- Durable

LIMITATIONS

This product is best suited for application in temperatures between 60°F and 90°F. **This product is not to be used to broadcast into or as a grout coat over aggregate. Excess of 30 mils will result in bubbles and or pinholes in the coating.** Some light colors may require multiple coats for adequate hiding power. Certain colors appear white when scratched. Smoke Blue should be top coated with POLY-THANE 2 HIGH SOLIDS with ADD-A-COLOR or ARMOR-TOP to reduce the “White” appearance of scratches.

TYPICAL USES

- Laboratories
- Automotive
- Pharmaceutical Plants
- Clean Rooms
- Hospitals
- Laundries
- Kennels
- Manufacturing

COLORS

Dur-A-GARD 50/50 is available in 15 standard colors. Please refer to the Standard Color Chart on our website. Custom colors are available upon request.

PACKAGING

DUR-A-GARD 50/50 epoxy coating is packaged in 1-gallon cans and 5-gallon pails. Shelf life is one year in unopened containers.

SURFACE PREPARATION

The substrate must be dry and free of oil, grease, dirt, bituminous and other contaminants. Unsound concrete and laitance should be removed by appropriate mechanical means. Refer to the Surface Preparation Guidelines on our website.

APPLICATION METHOD /SPREAD RATES

DUR-A-GARD 50/50 is applied with a 3/16” squeegee and roller at approximately 100 Sq Ft per gallon. See the DUR-A-GARD 50/50 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. Please contact DUR-A-FLEX for actual drawings.

JOINT GUIDELINES

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

MOISTURE CONCERNS

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

CHEMICAL RESISTANCE

This product is resistant to many common chemicals. For actual resistance to specific chemicals please refer to the master Chemical Resistance Chart on our website.

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 at Cleaning Guide.

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TECHNICAL INFORMATION

Color	Available in Standard & Special Colors
Mix Ratio (by volume)	1 Part Hardener to 2 Parts Resin
Viscosity at 70° F	1250 cps
Pot life at 70° F	20 Minutes Regular Hardener, 13 Minutes Fast Hardener
Cure Time, Touch Dry at 70° F	8 Hours Regular, 4 hours Fast
Cured Film Thickness	16 Mils at 100 Sq. Ft. / Gallon Spread Rate
Toxicity	Non – Toxic, USDA Approved

Physical Property	Test Method	Result
Hardness (Shore D)	ASTM D-2240	70-80
Compressive Strength	ASTM D-695 ASTM C-579	16,000 psi 10,500 psi
Tensile Strength	ASTM D-638 ASTM C-307	3,000 psi 1,950 psi
Tensile Elongation	ASTM D-638	7.50%
Flexural Strength	ASTM D-790 ASTM C-580	4,000 psi 2,900 psi
Flexural Modulus of Elasticity	ASTM D-790	5.5×10^5
Linear Expansion	ASTM D-696	2×10^{-5}
Bond Strength to Concrete	ASTM D-4541	400 psi substrate fails
Indentation	MIL D-3134	.025 MAX
Impact Resistance	MIL 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	35 mg loss
Coefficient of Friction	ASTM D-2047	>0.6
VOC Content		0

HARDENER FORMULATIONS

1. **DUR-A-GARD 50/50 "Regular"** is low viscosity so it is easy to apply. However, it is very sensitive to water and moisture during its curing period. The surface must be perfectly dry during application.
2. **DUR-A-GARD 50/50 "Fast"** is a fast curing hardener.

CAUTION

Slight batch-to-batch color variations may occur. When ordering to match a previous color, inquire if the same batch number or quality control number is still available. **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.