

DUR-A-GARD

DESCRIPTION

DUR-A-GARD Epoxy Coating is a pigmented, two component, low odor, 100% solids, thermosetting epoxy designed especially for flooring applications subjected to moderate traffic and chemicals. DUR-A-GARD Epoxy Coating is ideally suited for application on concrete, wood and metal. 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
- Good Color Stability
- Durable
- Low Viscosity

COLORS

Dur-A-Gard is available in standard colors. Refer to the Standard Color Chart for actual colors. Custom colors are also available. See limitations for certain colors.

TYPICAL USES

- Laboratories
- Garages
- Pharmaceutical Plants
- Clean Rooms
- Hospitals
- Laundries
- Kennels

PACKAGING

DUR-A-GARD Epoxy Coating is packaged in 1-gallon cans, 5-gallon pails and 50-gallon drums. Shelf life is one year in unopened containers.

CHEMICAL RESISTANCE

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

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 RATES

DUR-A-GARD is typically applied with a roller at approximately 100-200 Sq Ft per gallon, depending on substrate type and condition. See DUR-A-GARD 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. 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 reduce the “White” appearance of scratches.

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**”.

“SPECIAL PURPOSE” FORMULATIONS

1. **DUR-A-GARD "Regular"** has good color stability and a fairly 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 “Fast”** is a fast curing hardener designed for fast curing intermediate coats.
3. **DUR-A-GARD “OPF”** is designed to be used as the first and / or second topcoat to yield a uniform “orange peel” finish.
4. **CRETE-GARD** is designed as a topcoat for DUR-A-CRETE, and to achieve a heavy orange peel texture.
5. **DUR-A-GARD “SH”** is designed to withstand super high shear loads found in high lift areas.
6. **DUR-A-GARD “SL”** is a filler enhanced 100% solids epoxy designed to yield a thicker (35-100 Mils) finish.

DUR-A-GARD

TECHNICAL INFORMATION

Color	Available In All Standard Colors
Mix Ratio (by volume)	1 Part Hardener to 2 Parts Resin
Viscosity at 70° F	700 cps
Pot life at 70° F	20 – 25 Minutes
Cure Time, Touch Dry at 70° F	4 – 6 Hours
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 Orange Peel Smooth	ASTM D-2047	0.8 0.7
VOC Content		Regular, Fast, Crete Gard and Gard SH = 3.45 g/l Dur-A-Gard OPF = 59 g/l

DRAWINGS AND DETAILS

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

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.

JOINT GUIDELINES

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

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.

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.