



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. This coating is extremely durable, sanitary and easy to clean.

“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.

BENEFITS

- Stain Resistant
- Easy to Clean
- Durable
- Good Color Stability

LIMITATIONS

This product is best suited for application in temperatures between 60°F and 90°F. Substrate must be clean, sound, and dry. Excess of 30 mils may result in bubbles and or pinholes in the coating.

TYPICAL USES

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

COLORS

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

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-GLAZE WB, or DUR-A-GLAZE TIE-COAT. Please refer to the master Surface Preparation Guide on our website for more information.

APPLICATION METHOD /SPREAD RATES

See DUR-A-GARD Application Instruction Sheet on our website 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.

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 most common chemicals. Please refer to the master Chemical Resistance Chart on our website for actual resistance to specific chemicals/reagents.

DUR-A-GARD

TECHNICAL INFORMATION

| Mix Ratio (by volume) | 1 Part Hardener to 2 Parts Resin | |
|--|--|---|
| Viscosity at 70° F | 700 cps | |
| Pot life at 70° F | 20 Minutes Regular Hardener 13 Minutes Fast Hardener | |
| Cure Time, Touch Dry at 70° F | 6 -8 Hours | |
| Cured Film Thickness | 16 Mills 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 = 4 g/l Dur-A-Gard OPF = 59 g/l |

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.

CAUTION

Slight lot-to-lot color variations may occur. When ordering to match a previous color, inquire if the same lot 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.