



# DURALKOTE 240

## HIGH BUILD FLEXIBLE EPOXY COATING

### DESCRIPTION

**DURALKOTE 240** is a two-component, 100% solids, high performance epoxy coating system designed for use on concrete floors and walls. DURALKOTE 240 is flexible, offers exceptional chemical and abrasion resistance, and provides excellent adhesion to properly prepared surfaces. DURALKOTE 240 produces a glossy, tile-like, easily maintained surface. DURALKOTE 240 is available in Light Gray and a Neutral Base, that can be colored with EUCLID UNIVERSAL COLOR PACKS; available in 33 standard colors.

### PRIMARY APPLICATIONS

- Showrooms
- Mechanical rooms
- Truck/auto bay areas
- Warehouse floors
- Chemical processing and manufacturing plants
- Water treatment facilities
- Food service plants

### FEATURES/BENEFITS

- High build
- 33 colors available using color packs
- Chemical resistance
- Glossy, tile-like finish

### TECHNICAL INFORMATION

#### Material Properties @ 75°F (24°C)

Mixing Ratio (A:B, by volume)	1:1
VOC Content	0 g/L
Viscosity Mixed, cp	3,000 to 5,000
Pot Life full unit, minutes	15 to 25
Gel Time (100g sample), minutes	30 to 40
Tack Free Time 15 mils, hours	4 to 6
Hardness ASTM D 2240, Shore D	75 to 85
Tensile Strength ASTM D 638, psi (MPa)	1,800 to 2,000 (12.4 to 13.8)
Tensile Elongation ASTM D 638, % at break	15 to 25

**Appearance:** DURALKOTE 240 is available in Light Gray and in a Neutral Base that can be colored using EUCLID UNIVERSAL COLOR PACKS, which are available in 33 standard colors. See the EUCLID UNIVERSAL COLOR CHART for available colors.

#### Chemical Resistance

##### ACIDS

Acetic 10%	3D
Chromic 10%	2D
Citric 10%	3D
Formic 25%	1
Hydrochloric 10%	2D
Lactic 85%	2D
Nitric 10%	3D
Phosphoric 10%	3
85%	NR
Sulfuric Acid 10%	3D
50%	3D
98%	NR
Hydrofluoric 10%	2D

##### SOLVENTS

Ethyl Alcohol 95%	1
Ethyl Acetate	NR
Methanol	1
Methyl Ethyl Ketone	NR
Mineral Spirits	4
Methylene Chloride	NR
Toluene	1
Xylene	1
Trichloroethane	2

#### ALKALIES/SALTS

Ammonia 29%	4
Potassium Hydroxide 50%	4
Sodium Hydroxide 50%	4
Detergent Solution	4
Ammonium Sulfate 50%	4
Sodium Chloride 50%	4
Ferric Chloride 50%	3D
Sodium Hypochlorite 10%	3D
Hydrogen Peroxide 35%	3D

#### MISCELLANEOUS

Brake Fluid	3
Skydrol	3
Formaldehyde 37%	3
Ethylene Glycol	4
Propylene Glycol	3
Vegetable Oil	4
Gasoline	2
Water	4
Anti Freeze	4
Bleach	4

1 = Incidental (8 hrs)  
 2 = Splash & spill (72 hrs)  
 3 = Extended exposure (7 days)  
 4 = Long term exposure (30 days)  
 D = Discoloration  
 NR = Not rated

### PACKAGING

DURALKOTE 240 is packaged in a 4 gal (15.5 L) case containing two 2 gal (7.6 L) kits.

### SHELF LIFE

2 years in original, unopened, properly stored package

### COVERAGE

Primer (optional)	ft <sup>2</sup> /gal (m <sup>2</sup> /L)	Top Coat	ft <sup>2</sup> /gal (m <sup>2</sup> /L)
Duraprime WB	125 to 250 (3.08 to 6.14)	Duralkote 240	100 to 150 (2.45 to 3.68) 1st coat
or		Duralkote 240	100 to 150 (2.45 to 3.68) 2nd coat
Duraltex Clear	150 to 300 (3.68 to 7.36)	Eucothane	300 to 500 (7.4 to 12.3)

Rates are approximate and are offered for estimating purposes only.

## DIRECTIONS FOR USE

**Surface Preparation:** Concrete must be structurally sound, dry, free of grease, oils, coatings, dust, curing compounds and other contaminants. Surface laitance must be removed. The preferred method of surface preparation is mechanical abrasion. For oil contaminated surfaces using steam cleaning in conjunction with strong emulsifying detergent may be considered. Rinse thoroughly with potable water. After cleaning, remove defective concrete, honeycombs, cavities, joint crack voids and other defects by routing to sound material. Smooth, precast and formed concrete surfaces must be cleaned, roughened and made absorptive by mechanical abrasion. Surface profile should be equal to CSP 2 - 4 in accordance with ICRI Guideline 310.2 at a minimum. If it is not possible to mechanically abrade, acid etch with a 15% hydrochloric acid solution. After etching, pressure wash or flush the surface with copious amounts of water to neutralize the surface. Care must be taken to ensure that all salts and residue from the reaction have been removed. The pH of the surface should be checked, as per ASTM D 4262, following acid etching. Following surface preparation, the cleaned surface should pull concrete when tested with an Elcometer or similar pull tester (ASTM D 4541). Before application of the coating, use the "Visqueen test" (ASTM D 4263) to evaluate moisture level in concrete. **New Concrete:** Should be allowed to cure for a minimum of 28 days. Remove any surface hardener or curing compounds, by using the recommended mechanical methods for surface preparation. Prepare surfaces as recommended above. **Old Concrete:** For quick, small patching use suitable epoxy mortar; for larger areas, use cementitious repair materials which are compatible with the coating. After repairing, a light brush blast is recommended prior to coating. **Steel:** All oils, greases, dirt, old coatings or chemical contaminants must be removed. All welds should be continuous and ground to remove all splatter, sharp edges, laps and other surface irregularities. All steel surfaces should be blasted to a "NEAR WHITE" metal finish using clean dry blasting media.

**Mixing:** Premix DURALKOTE 240 Part A and Part B separately. If DURALKOTE 240 NEUTRAL BASE is being used, it takes 1 EUCLID UNIVERSAL COLOR PACK (EUCO Pack) per 2 gal (7.6 L) unit. Slowly mix 1 EUCLID UNIVERSAL COLOR PACK (EUCO Pack) into the Part B side until it is uniformly blended. EUCLID UNIVERSAL COLOR PACKS are available in 33 standard colors, see EUCLID UNIVERSAL COLOR CHART for available colors. Combine equal parts by volume of Part A and Part B in a clean container. Mix thoroughly with a slow speed drill motor and "Jiffy" mixer for a minimum of 3 minutes. Scrape the sides and bottom of the container (including the paddle of the mixer) during mixing. Mix only enough material that can be used within the working life. Do not aerate mix.

**Application:** Surface and ambient temperatures should be between 50°F to 90°F (10°C to 32°C). Apply properly mixed DURALKOTE 240 by brush, short nap roller, notched squeegee or spray to the properly prepared surface. Apply at a rate of 11 to 16 wet mils, 100 to 150 ft<sup>2</sup>/gal (2.45 to 3.68 m<sup>2</sup>/L). Air bubbles and voids can be minimized by using a spiked roller immediately after application. Allow to cure a minimum of 5 to 6 hours at 75°F (24°C) and no longer than 24 hours. Apply a second coat of DURALKOTE 240 at 11 to 16 wet mils, 100 to 150 ft<sup>2</sup>/gal (2.45 to 3.68 m<sup>2</sup>/L). In most cases, a penetrating low viscosity primer will minimize outgassing and help improve surface appearance of DURALKOTE 240. Where an anti-skid surface is desired, broadcast approx. 1/4 to 1/2 lb/ft<sup>2</sup> (1.22 to 2.44 kg/m<sup>2</sup>) of clean dry aggregate into the first coat. When first coat has cured, sweep off excess aggregate. Apply a sealer coat at a coverage rate of 100 to 150 ft<sup>2</sup>/gal (2.45 to 3.68 m<sup>2</sup>/L).

## CLEAN-UP

Clean tools and application equipment immediately after use with methyl ethyl ketone or acetone. Clean spills or drips while still wet with solvent. Dried DURALKOTE 240 will require mechanical abrasion for removal.

## PRECAUTIONS/LIMITATIONS

- Store at temperatures between 50°F to 90°F (10°C to 32°C).
- Do not apply if ambient or substrate temperature is below 50°F (10°C).
- Do not apply to wet surfaces or if air humidity is greater than 90%.
- The surface temperature must be at least 5°F (3°C) above the dew point of the work area.
- Be sure work area is well ventilated.
- Do not thin the material.
- 1 EUCLID UNIVERSAL COLOR PACK (EUCO Pack) per 2 gal (7.6 L) unit. Mix into the B component (Neutral Base).
- When applied directly to concrete, pinholes or bubbles may result due to concrete outgassing.
- Coating is a vapor barrier after cure.
- Variations in color may occur after extended UV exposure.
- Although epoxy coatings are chemically resistant, surface staining of the coating may occur after contact with some chemicals. A polyurethane topcoat such as EUCOTHANE may be used for improved stain resistance.
- In all cases, consult the Safety Data Sheet before use.

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