

# 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 walls and floors. DURALKOTE 240 is flexible, offers excellent chemical and abrasion resistance, and provides excellent adhesion to properly prepared surfaces. DURALKOTE 240 produces a tile-like, easily maintained surface.

### PRIMARY APPLICATIONS

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

### FEATURES/BENEFITS

- High build
- ▲ Can contribute to LEED points
- Chemical resistance
- DOT Non-Corrosive
- 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, cps	3,000 to 5,000
Gel Time (100 g sample)	30 to 40 mins
Pot Life (2 gal (7.6 L) unit)	15 to 25 mins
Tack free time (15 mils)	4 to 6 hrs
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
Compressive Strength, ASTM D 695	
psi (MPa)	4,500 to 5,500 (31.0 to 37.9)
Compressive Strength, ASTM C 109	
(3 parts sand), psi(MPa)	7,000 to 8,000 (48.3 to 55.2)
Hardness, Shore D, ASTM D 2240	75 to 85
Water Gain 7 days %, max	0.5
Appearance: Light Gray, Dark Gray and Tile Red are standard colors. Special or custom colors are available subject to minimum order quantity requirements.	

#### 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 Soln	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)
Duraprime WB	125 to 250 (3.08 to 6.14)
Duraltex Clear	150 to 300 (3.68 to 7.36)
Top Coat	
Duralkote 240	100 to 150/coat (2.45 to 3.68)

Rates are approximate and are offered for estimating purposes only.



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## 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 - 5 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 patching materials which are compatible with the system. After patching, 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. Combine equal parts by volume of Part A (Base) and Part B (Hardener) in a clean container. Mix thoroughly with a slow speed drill motor and "Jiffy" mixer for a minimum 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) 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).
- Protect from moisture and freezing.
- Do not apply to wet surfaces.
- Do not apply if humidity is greater than 90%.
- The surface temperature must be at least 5°F (2.7°C) above the dew point of the work area.
- Do not thin the material.
- Do not apply if ambient or substrate temperature is below 50°F (10°C).
- Be sure work area is well ventilated.
- 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. Consider the use of a polyurethane topcoat such as EUCOTHANE for improved stain resistance.
- In all cases, consult the Material Safety Data Sheet before use.

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