COATINGS - INDUSTRIAL FLOOR

Master Format #: 09 96 56

DURALKOTE 240

HIGH BUILD, ANSI STANDARD 61 CERTIFIED, FLEXIBLE EPOXY COATING

EUCLID CHEMICAL

PACKAGING

Light Gray and Tan

2 gal (7.6 L) unit (x2 per case)
Code: TD2379104§

Neutral Base

2 gal (7.6 L) unit (x2 per case)
Code: TD2379104NC§

Neutral Base + Universal Color Pack Kit

2 gal (7.6 L) unit (x2 per case)

2 Universal Color Packs
Code: TD2379104NC§ CP

CLEAN UP

Clean tools and application equipment immediately with acetone, xylene, or MEK. Clean spills or drips with the same solvents while still wet. Hardened DURALKOTE 240 will require mechanical abrasion for removal.

SHELF LIFE

2 years in original, properly stored, unopened package

SPECIFICATIONS/COMPLIANCES

- DURALKOTE 240 is IAPMO/ANSI Standard 61 certified for use with potable water
- Canadian Food Inspection Agency compliant

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 2 standard colors, and in a Neutral Base that can be colored with EUCLID UNIVERSAL COLOR PACKS; available in 33 standard colors.

PRODUCT CHARACTERISTICS

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
- Chemical resistance
- Glossy, tile-like finish
- ANSI Standard 61 certified
- 33 colors available using color packs

APPEARANCE

DURALKOTE 240 standard colors are Light Gray and Tan (see EUCLID UNIVERSAL COLOR CHART). DURALKOTE 240 is also available 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.

COVERAGE

Primer (optional - select one)	Coverage - ft²/gal (m²/L)
Duraprime WB	125 to 250 (3.1 to 6.1)
Duraltex Clear	150 to 300 (3.7 to 7.4)

Neat Coating	Coverage - ft²/gal (m²/L)
Duralkote 240: 1st coat	100 to 150 (2.5 to 3.7)
Duralkote 240: 2nd coat	100 to 150 (2.5 to 3.7)
Eucothane: Seal coat	300 to 500 (7.4 to 12.3)

Note: Coverage rates are approximate. Actual coverage depends on temperature, texture, and substrate porosity.

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.
*Material properties @ 75 °F (24 °C)

Test Method	Test Property	Values
N/A	Gel Time, 100 grams	30 to 40 minutes
ASTM D2240	Hardness, Shore D	75 to 85
N/A	Mix Ratio (A:B by volume)	1:1
N/A	Pot Life (full unit, minutes)	15 to 25 minutes
N/A	Tack Free Time (15 mils)	4 to 6 hours
ASTM D638	Tensile Elongation	15 to 25 %
ASTM D638	Tensile Strength	1,800 psi to 2,000 psi (12.4 MPa to 13.8 MPa)
N/A	Viscosity Mixed	3,000 cp to 5,000 cp
N/A	VOC Content	≤ 50 g/L

CHEMICAL RESISTANCE

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

Acetic Acid, 10%	3D	Methyl Ethyl Ketone	NR
Ammonia, 29%	4	Methylene Chloride	NR
Ammonium Sulfate, 50%	4	Mineral Spirits	4
Anti-Freeze	4	Nitric Acid, 10%	3D
Bleach	4	Phosphoric Acid, 10%	3
Brake Fluid	3	Phosphoric Acid, 85%	NR
Chromic Acid, 10%	2D	Potassium Hydroxide, 50%	4
Citric Acid, 10%	3D	Propylene Glycol	3
Detergent Solution	4	Skydrol	3
Ethyl Acetate	NR	Sodium Chloride, 50%	4
Ethyl Alcohol, 95%	1	Sodium Hydroxide, 50%	4
Ethylene Glycol	4	Sodium Hypochlorite, 10%	3D
Ferric Chloride, 50%	3D	Sulfuric Acid 10%	3D
Formaldehyde, 37%	3	Sulfuric Acid 50%	3D
Formic Acid, 25%	1	Sulfuric Acid 98%	NR
Gasoline	2	Toluene	1
Hydrochloric Acid, 10%	2D	Trichloroethane	2
Hydrofluoric Acid, 10%	2D	Vegetable Oil	4
Hydrogen Peroxide 35%	3D	Water	4
Lactic Acid, 85%	2D	Xylene	1
Methanol	1		

DIRECTIONS FOR USE

Surface Preparation: The surface must be structurally sound, clean and free of grease, oil, curing compounds, soil, dust and other contaminants. See note in "Precautions/Limitations" section if coating is to be placed over old/existing epoxy or urethane coatings. New concrete and masonry must be at least 28 days old. Surface laitance must be removed. Concrete surfaces must be roughened and made absorptive, preferably by mechanical means, and then thoroughly cleaned of all dust and debris. If the surface was prepared by chemical means (acid etching), a water/baking soda or water/ammonia mixture, followed by a clean water rinse, must be used for cleaning, in order to neutralize the substrate. The Concrete Surface Profile (CSP) should be equal to CSP 2-4 in accordance with Guideline 310.2R-2013, published by the International Concrete Repair Institute (ICRI). Allow substrate to dry before coating application. Following surface preparation, the strength of the surface can be tested if quantitative results are required by project specifications. An elcometer or similar tensile pull tester may be used in accordance with ASTM C1583, and the tensile pull-off strength should be at least 250 psi (1.7 MPa).

Do not apply epoxy or urethane coatings if there is excessive moisture in the concrete, or if the moisture vapor emission rate (MVER) is high. Before application of DURALKOTE 240, perform either of these tests: **ASTM F2170** - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using In-Situ Probes, or **ASTM F1869** - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride. If the relative humidity is 85% or greater, or the MVER is 3 lbs/1000 ft^2/24 hrs or greater, use a moisture mitigation system such as Dural Aquatight 100 PLUS or Dural Aquatight WB. After surface preparation and moisture testing, a test section application is recommended to confirm good adhesion and compatibility of the coating with the surface, and to confirm appearance and aesthetics.

When coating steel, all contamination should be removed and the steel surface prepared to a "near white" finish (SSPC SP10) using clean, dry blasting media.

Mixing: Mix DURALKOTE 240 using a low-speed drill and a mixing paddle. Pre-mix Part A and Part B separately for approximately 3 minutes each. If DURALKOTE 240 NEUTRAL BASE and a EUCLID UNIVERSAL COLOR PACK are being used, it takes 1 EUCLID UNIVERSAL COLOR PACK per 2 gal (7.6 L) unit. Add the EUCLID UNIVERSAL COLOR PACK into the Part B and mix slowly until the color is uniform. Combine Part A and Part B in a 1:1 ratio by volume, then mix thoroughly for 3 to 5 minutes. Scrape the bottom and sides of the containers at least once during mixing. Do not scrape bottom or sides of the container once mixing operations have ceased; doing so may result in unmixed resin or hardener being applied to the substrate. Unmixed resin or hardener will not cure properly. Do not aerate the material during mixing. To keep aeration to a minimum, the recommended mixing paddles are #P1 or #P2 as found in ICRI Guideline 320.5R-2014.

Application: See the "Epoxy & Urethane Coatings Application Guide" for installation means and methods. Note that any coverage rates or mixing ratios for epoxy or epoxy-aggregate combinations found in the "Epoxy & Urethane Coatings Application Guide" are approximations, and are for general reference only. For product-specific coverage rates and mixing ratios, refer to this technical data sheet. **Where an anti-skid surface is desired for DURALKOTE 240, broadcast approximately 0.25 to 0.50 lbs/ft^2 (1.2 to 2.4 kg/m^2) of clean, dry aggregate into the first coat. When the first coat has cured, sweep off excess aggregate. Proceed with the second coat of DURALKOTE 240 and the optional seal coat of EUCOTHANE listed in the "Coverage" section above.**

PRECAUTIONS/LIMITATIONS

- Store DURALKOTE 240 indoors, protected from moisture, at temperatures between 50 °F and 90 °F (10 °C and 32 °C)
- Surface and ambient temperature during coating applications should be between 50 °F and 90 °F (10 °C and 32 °C)
- Material temperatures should be at least 50 °F (10 °C) and rising
- Do not apply DURALKOTE 240 if surface temperature is within 5 °F (3 °C) of the dew point in the work area
- Working time and cure time will decrease as the temperature increases, and will increase as the temperature decreases
- Do not thin DURALKOTE 240
- When a vapor barrier is utilized in on-grade applications of DURALKOTE 240, it must be installed directly under the slab
- Although DURALKOTE 240 is chemically resistant, surface staining of the coating may occur after contact with some chemicals. Consider the use of a urethane topcoat such as EUCOTHANE for improved stain resistance.
- DURALKOTE 240 will discolor upon prolonged exposure to ultraviolet light and high-intensity artificial lighting. An aliphatic urethane topcoat such as EUCOTHANE can minimize these effects.
- Depending on the condition of the substrate, minor surface defects can appear in the coating when applied. Proper surface prep, patching of substrate imperfections, and priming will ensure a better overall finish.
- If coating over old/existing epoxy or urethane coatings, or if more than 24 hours elapses between coats: sand the previous coat, wipe clean, and proceed with coating operations. If old/existing coatings are peeling, flaking, etc., all unsound material must be removed prior to new coating applications.
- Application of a test area is recommended to confirm final appearance and texture of the system with the end user
- DURALKOTE 240 NEUTRAL BASE requires 1 EUCLID UNIVERSAL COLOR PACK per 2 gal (7.6 L) unit. Mix COLOR PACK into the Part B component.
- In all cases, consult the product Safety Data Sheet before use

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