



EUCOTHANE

CONCRETE AND METAL PROTECTIVE POLYURETHANE COATING

EUCLID CHEMICAL

DESCRIPTION

EUCOTHANE is a two component, solvent based, polyester/aliphatic polyurethane coating that offers outstanding abrasion resistance, excellent flexibility, color stability and weather resistant characteristics. It offers very good chemical resistance without compromising on aesthetics. Ideal as a topcoat for most Euclid Chemical epoxy, urethane and some masonry coatings, **EUCOTHANE** provides excellent anti-graffiti properties.

PRIMARY APPLICATIONS

- Airport hangar floors
- Bridge structures
- Clean rooms
- Truck/auto repair bays
- Manufacturing plants
- Laboratories
- Warehouses
- Walls/floors

FEATURES/BENEFITS

- Excellent cleanability
- Good chemical resistance
- Anti-graffiti coating

TECHNICAL INFORMATION

Material Properties @75°F (24°C) - 50% RH

Mix ratio (A:B) by volume	2 to 1
VOC Content (Clear Gloss, Colors)	335 g/L
VOC Content (Clear Satin)	447 g/L
Viscosity, mixed cp	200 to 600
Mixed solids % by wt	
70% (colors), 60% (clear gloss), 54% (clear satin)	
Pot life (1.5 gal volume)	2 to 4 hours
Hardness, Shore D	62
Tack Free Time	3 to 5 hours
Light Foot Traffic	14 - 24 hours
Final Cure/Heavy Traffic	3 to 5 days
Flexibility 1/8" (3.2 mm) Mandrel	No cracks
Taber Abrasion	
CS17 wheel, 1000 g load, 500 cycles	22 mg loss

Impact Resistance

Gardner Impact, 160 in/lb Passes

Values presented are typical and not necessarily referenced to create specifications.

Appearance: Light Gray, Concrete Gray, Dark Gray, Tile Red, White, Black, Tan, Clear Gloss and Clear Satin are standard colors. Special or custom colors are available subject to minimum quantity orders.

Chemical Resistance

ACIDS	RATING	MISCELLANEOUS	RATING
Acetic Acid 5%	2	Detergent Solution	3
Citric Acid 5%	3	Ethylene Glycol	3
Hydrochloric 10%	3	Propylene Glycol	3
Nitric Acid 5%	3	Vegetable Oil	3
Phosphoric 20%	3	Gasoline	3
Sulfuric 10%	3		
SOLVENTS			
Ethyl Alcohol 95%	3		
Ethyl Acetate	NR		
Methanol	1		
Methyl Ethyl Ketone	NR		
Mineral Spirits	3		
Methylene Chloride	NR		
Toluene	2		
Xylene	3		
Trichloroethane	2		
Isopropyl Alcohol	1		

1 = Incidental Contact (8 hrs)

2 = Splash & Spill (72 hrs)

3 = Extended Exposure (7 days)

D = Discoloration may occur

NR = Not Resistant

PACKAGING

EUCOTHANE is packaged in 3 gal (11.3 L) cases.

SHELF LIFE

2 years in original, unopened package.

COVERAGE

300 to 500 ft²/gal (7.4 to 12.3 m²/L) **Note:** Coverage rates are approximate and depend on temperature, porosity and texture of the surface.

DIRECTIONS FOR USE

Surface Preparation Concrete: Surface must be structurally sound, dry, and free of laitance, dust, dirt, oil, coatings, form release agents, and other contaminants. Remove curing compounds by mechanical abrasion. Oil, grease and asphalt residue should be removed by using a combination of scrapers, wire brushes, abrasive blasting and scrubbing with a strong industrial grade detergent. Flush thoroughly with clean water after scrubbing. Honeycombs, cracks, cavities, and other defects should be routed to sound concrete and patched using compatible materials. Smooth precast and formed concrete must be cleaned and made absorptive by abrasive blasting. Surface profile should be equal to CSP 2 - 5 in accordance with ICRI Guideline 310.2, at a minimum.

Steel: Should be abrasive-blasted using clean dry aggregate to near white metal finish and primed immediately to prevent flash rusting.

New/Existing Coatings: Old or existing epoxy coatings should be cleaned and lightly sanded prior to application of EUCOTHANE as a topcoat. Follow the recommended drying time between coats when applying EUCOTHANE to newly applied Dural epoxy coatings. **Priming:** EUCOTHANE should not be applied directly to concrete. If an epoxy coating has not been applied, DURAPRIME WB (low odor, two part water-based epoxy) should be used to prime concrete in accordance with the information provided in the technical data sheet.

Mixing: Premix EUCOTHANE Part A and Part B separately, then combine one (2) parts by volume of Part A with one (1) part by volume of Part B in a clean dry container, and mix using a "Jiffy" or similar type mixer. Mix slowly without aerating for 3 to 5 minutes. Scrape the sides of the container and the blades at least once during the mixing. Do not aerate during mixing.

Application: Primer for concrete: Apply the selected primer using brush, short nap roller or spray. Refer to appropriate product data sheet. The primer must be tack free before application of EUCOTHANE. The surface and ambient temperature at the time of application should be between 50°F to 90°F (10°C to 32°C) and the relative humidity below 90%. EUCOTHANE can be applied as soon as the primer is tack-free, but no later than 18 hours after application of the primer. When spraying, proper safety precautions should be observed. Two coats of EUCOTHANE are recommended for most applications. The second coat can be applied after the first coat has tacked off, typically within 4 to 6 hours after application at 75°F (24°C) For an anti-skid surface, broadcast ½ to 1 lb/yd² (0.54 kg/m²) of clean, dry, fine aggregate into the first coat of EUCOTHANE. When the first coat has cured, sweep off the excess aggregate. Apply the second coat of EUCOTHANE to seal the surface.

Cure Time: At 75°F (24°C), tack free time is 4 to 6 hours. EUCOTHANE requires 14 to 24 hours at 75°F (24°C) to cure sufficiently for light to moderate traffic.

Graffiti Removal: Graffiti removal should not be attempted until 72 hours after EUCOTHANE application. Remove graffiti as soon as possible after the graffiti attack by working on small areas at a time. Use commercially available graffiti removers and apply in accordance with manufacturer's instructions.

CLEAN-UP

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

PRECAUTIONS/LIMITATIONS

- Keep away from sparks, open flame, pilot lights and other sources of ignition.
- Store at temperatures between 50°F to 90°F (10°C to 32°C).
- Protect from moisture.
- Apply EUCOTHANE when surface and ambient temperatures are between 50°F to 90°F (10°C to 32°C) and the humidity below 90%.
- Surfaces including primer must be dry prior to EUCOTHANE application.
- Excessively high film thicknesses and/or moisture may cause surface blistering.
- Concrete surfaces may darken to give a "wet look" effect on application.
- A test patch for application on concrete or existing coatings is highly recommended.
- Not intended for continuous immersion.
- Provide adequate ventilation and ensure proper protective and safety equipment during application.
- Keep containers tightly closed.
- In all cases, consult the Safety Data Sheet before use.

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