

EUCOTHANE

CONCRETE AND METAL PROTECTIVE POLYURETHANE COATING

DESCRIPTION

EUCOTHANE is a two component, solvent based, polyester aliphatic polyurethane coating which 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 epoxies, 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) volume	1 to 3
VOC Content	340 g/L
Viscosity, mixed cps: Clear	150 to 300
Pigmented	1,200 to 2,000
Mixed solids % by wt	58 to 62
Pot life	1 to 2 hours
Pencil Hardness	2H
Tack Free Time	4 to 6 hours
Final cure	7 days
Flexibility 1/8" (3.2 mm) Mandrel	passes
Taber Abrasion, CS17 1,000 gms	
1,000 cycles wt loss	50 mgs

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

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

Chemical Resistance Chart

ACIDS	RATING	ALKALIES/SALTS	RATING
Acetic Acid 10%	2	Ammonia 29%	3
5%	3	Potassium Hydroxide 50%	3
Citric Acid 5%	3	Sodium Hydroxide 50%	3
Hydrochloric 10%	3	Detergent Solution	3
Nitric Acid 5%	3	Ammonium Sulfate 50%	3
Phosphoric 20%	3	Sodium Chloride 50%	3
Sulfuric 10%	3	Ferric Chloride 50%	2D
SOLVENTS		Sodium Hypochlorite 5%	2D
Ethyl Alcohol 95%	3	MISCELLANEOUS	
Ethyl Acetate	NR	Brake Fluid	3
Methanol	1	Skydrol	3
Methyl Ethyl Ketone	NR	Ethylene Glycol	3
Mineral Spirits	3	Propylene Glycol	3
Methylene Chloride	NR	Vegetable Oil	3
Toluene	2	Gasoline	3
Xylene	3	Urine	3
Trichlorethane	2	Bleach Solution	3
Isopropyl Alcohol	1	Diesel Oil	3
		Jet Fuel	3

1 = Incidental Contact (8 hrs)

2 = Splash & Spill (72 hrs)

3 = Extended Exposure (7 days)

D = Discoloration may occur

NR = Not Resistant

Dry film thickness @ 3.0 mils (2 coats @ 1.5 mils each)

PACKAGING

EUCOTHANE is packaged in 4 gal (15.5 L) cases.

SHELF LIFE

2 years in original, unopened package.

COVERAGE

200 to 300 ft²/gal (4.91 to 7.36 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.



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An **RPM** Company



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. 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 for these products.

Mixing: Premix EUCOTHANE Part A and Part B separately, then combine one (1) part by volume of Part A with three (3) parts 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 a matte finish, apply a coat of clear gloss to the primed surface, followed by a coat of clear matte. 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 48 hours at 75°F (24°C) to cure sufficiently for light to moderate traffic.

Graffiti Removal: Graffiti removal should not be attempted until 48 to 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 manufacturers instructions.

CLEAN-UP

Clean tools and application equipment immediately after use with Methyl Ethyl Ketone or acetone. Clean spill or drips while still wet with solvents. Dried EUCOTHANE will require mechanical abrasion for removal.

PRECAUTIONS/LIMITATIONS

- Keep away from heat and flame.
- 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 away from sparks, open flame, pilot lights and other sources of ignition.
- Keep containers tightly closed.
- In all cases, consult the Material Safety Data Sheet before use.

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