



THE EUCLID CHEMICAL COMPANY

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EUCOTHANE

HIGH PERFORMANCE URETHANE COATING

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EUCOTHANE is a two-component catalyzed aliphatic polyester-polyurethane floor coating with outstanding resistance to abrasion and chemical attack. This premium coating has excellent flexibility, ultra-violet color stability and weathering characteristics. EUCOTHANE comes in a variety of colors and will provide a high-gloss finish. It is an ideal topcoat over most epoxy coatings and toppings.

EUCOTHANE VOX is a V.O.C. compliant version which offers the same chemical and wear resistant properties.

PRIMARY APPLICATIONS

- Showrooms
- Manufacturing plants
- Warehouses
- Chemical plants
- Auto/truck repair bays

FEATURES / BENEFITS

- Excellent resistance to abrasion and impact
- Hardens to a high-gloss finish
- Easy to apply with standard equipment
- Available in a variety of colors
- Provides an excellent finish coat for most epoxy coatings
- Can be applied as a non-slip floor finish

SPECIFICATIONS / COMPLIANCES

- EUCOTHANE is approved for use by the U.S.D.A. (Terra Cotta and Yellow are not U.S.D.A. approved).
- EUCOTHANE VOX is a solvent based urethane coating manufactured to comply with V.O.C. requirements nationwide, while retaining the same performance of the standard EUCOTHANE.
- These products meet V.O.C. contents in accordance to EPA 40 CFR Part 59 Table I Subpart D for Industrial Maintenance Coatings with a maximum V.O.C. content of 450 g/l.

PACKAGING

EUCOTHANE is packaged in 3 gal (11.4 liter) and 15 gal (56.8 liter) kits. Mixing ratio is 2:1 by volume.

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions.

Re-coat time	4-24 hours
Suitable for foot traffic	..... @24 hours
Suitable for wheel traffic	..... @48 hours
Dry to touch at 70°F (21°C)	..... 5-6 hours
Pot life at 70°F (21°C)	..... 4 hours
Dry film thickness	..... 3 to 4 mils (76-102 microns)
Mixing ratio by volume Part A to Part B	..... 2 to 1
Shelf life	..... 2 years
Flexibility	..... good
Weathering	..... very good
Total solids content	..... 58%

EUCOTHANE V.O.C. Content

Clear	..... 449 g/l
Colors	..... 449 g/l

EUCOTHANE VOX Total Solids Content

Clear	..... 64%
Colors	..... 67%

EUCOTHANE VOX V.O.C. Content

Clear	..... 370 g/l
Colors	..... 361 g/l

Impact Resistance: Gardner Impact	
Direct & Reverse: 160 in/lbs (8959 mm/kg)	.... Passed
Shore D Hardness	..... 72
Abrasion Resistance: Taber Abrader with CS-17	
Wheel, 1000 gm load/500 Cycles	..... 20 mg

CHEMICAL RESISTANCE

Acetic Acid, 5%	..... excellent
Alkalies	..... excellent
Ammonia	..... excellent
Battery Acid	..... excellent
Beer	..... excellent
Bleach	..... excellent
Brake Fluid	..... excellent
Ethanol	..... excellent
Ethylene Glycol	..... excellent
Gasoline	..... excellent
Hydrochloric acid, 10%	..... excellent
MEK	..... poor
Methylene Chloride	..... poor
MIBK	..... excellent
Nitric Acid, 5%	..... excellent
Oil	..... excellent
Phosphoric Acid, 30%	..... excellent
Saltwater	..... excellent
Skydrol®	..... excellent

COVERAGE

Coverage rate is generally at 325 ft²/gal (8.0 m²/liter) at 5-6 mil (127-152 microns) wet film thickness.

The concrete surface texture greatly affects coverage rates and final appearance. Additionally, introducing silica sand for slip resistance will reduce coverage rates.

Material Requirements-With a one coat application using a coverage rate of 325 ft²/gal (8.0 m²/liter), approximately 3 gal (11.4 liter) of material will be required per 1000 ft² (92.9 m²) of area. Note: Use of this product requires a primer which is sold separately.

Appearance

EUCOTHANE is a two-part urethane system consisting of a Part A and a Part B. This product is available in White, Light Reflective, Tile Red, Tan, Brown, Concrete Gray, Battleship Gray, Black, Yellow, Green, Blue, Terra Cotta and Clear. After placement and curing, the product has a smooth, high gloss appearance.

DIRECTIONS FOR USE

Surface Preparation-New concrete should be cured with polyethylene, wet burlap or water. Any curing membranes must be completely removed by mechanical means such as shot-blasting. Concrete surfaces must have at least a slightly textured surface for the best bond. Although acid etching will produce the desired texture if done properly, mechanical texturing is strongly preferred as the preparation method. If the surface is prepared by etching with acid, it must be completely neutralized and all salts must be washed from the surface. New concrete must be a minimum of 28 days of age before coating application. For coating old or new concrete, the surface must be cleaned of any dirt, dust or other contamination with a thorough floor scrubbing. Remove oil and grease with EUCO SOLVENT. Allow the floor to dry after cleaning.

Mixing-EUCOTHANE is a two-component liquid requiring thorough mechanical mixing. Combine Part A with Part B on a 2 to 1 ratio by volume and mix until uniform and streak-free. Part B is moisture sensitive and should not be opened until used.

Priming-The surface must be primed with the same color of EUCOPOXY TUF COAT or EUCOPOXY TUF COAT VOX at 250 ft²/gal (6.1 m²/liter). Clear EUCOTHANE may be used to topcoat TUF COAT DBS. Allow primer to dry tack free before EUCOTHANE application. Do not apply EUCOTHANE directly over unprimed concrete. For non-slip surfaces, the aggregate should be embedded in the coat or surface prior to topcoating with EUCOTHANE.

Application-Application of EUCOTHANE should begin soon after the primer has dried. Application may be done by either brush, roller or airless sprayer at a rate of 325 ft²/gal (8.0 m²/liter).

Topcoat Application-EUCOTHANE is designed for use as a top coat for any of the EUCOPOXY TUF COAT family of products. Topcoating can take place over EUCOPOXY TUF COAT products as a continuous process allowing drying time between coats. Existing or old epoxy coatings will require cleaning and a light sanding before EUCOTHANE application.

CLEAN-UP

Clean tools and equipment with solvent such as EUCO SOLVENT, xylene, xylol, toluene or MEK. Do not allow the epoxy to harden on equipment.

PRECAUTIONS / LIMITATIONS

- Avoid application at air and floor temperatures of below 50°F (10°C).
- Store indoors at 45° to 90°F (7° to 32°C).
- Use in well ventilated area.
- Keep away from sparks and open flames.
- If HVAC intake ducts will distribute solvent odor into adjoining occupied areas of the building, care should be taken to block these ventilation vents.

Form Eucothane-9.99

WARRANTY: The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for six (6) months from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid's installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid's products for the Buyer's intended purposes.