



THE EUCLID CHEMICAL COMPANY

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EUCOPOXY TUFCOAT VOX



WATER-BASED EPOXY COATING

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EUCOPOXY TUFCOAT VOX is a two-component, water-based, low-odor, epoxy-polyamide coating. It acts as a tough, abrasion-resistant membrane that withstands wear and chemical attack in a variety of applications. EUCOPOXY TUFCOAT VOX should be used in many areas where a solvent-based product is not permitted. EUCOPOXY TUFCOAT VOX comes in a variety of colors and provides a semi-gloss finish. This coating may be used as a primer for many of the other products in the EUCOPOXY TUFCOAT family.

PRIMARY APPLICATIONS

- Food processing plants
- Dairies
- Warehouse floors
- Chemical plants
- Manufacturing plants
- Auto/truck repair bays
- Aisleways and docks

FEATURES / BENEFITS

- Water-based, does not release objectionable solvent odors
- Provides excellent wear under traffic
- Excellent resistance to a variety of chemicals
- Hardens to a semi-gloss finish
- Easy to apply with standard equipment
- Can be applied as a non-slip floor finish
- Available in a variety of colors
- No separate primer- use as a two-coat material

SPECIFICATIONS / COMPLIANCES

- Meets all Federal and State solvent emissions standards including California Air Regulation Board, New York and New Jersey state requirements
- Approved for use by the U.S.D.A.
- This product meets 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

EUCOPOXY TUFCOAT VOX is packaged in 1 gal (3.8 liter) and 5 gal (18.9 liter) kits.

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions.

Colors

mixing ratio by volume, Part A to Part B 4.5 to 1
V.O.C. 121 g/l

Clear

mixing ratio by volume, Part A to Part B 3.9 to 1
 Re-Coat time 4-24 hours
V.O.C. 120 g/l
 Suitable for foot traffic @ 24 hours
 Suitable for wheel traffic @ 48 hours
 Dry to touch at 70°F (21°C) 4-6 hours
 Pot life at 70°F (21°C) 1 - 1 1/2 hours
 Total solids content 56%
 Dry film thickness.....3 to 4 mils (76-102 microns)
 Shelf life 1 year
 Flexibility good
 Weathering very good
 Abrasion resistance excellent

CHEMICAL RESISTANCE

Acetic Acid, 5% poor
 Alkalies excellent
 Ammonia excellent
 Battery Acid/good
 Beer excellent
 Bleach excellent
 Brake Fluid poor
 Ethanol poor
 Ethylene Glycol excellent
 Gasoline excellent
 Hydrochloric Acid, 10% poor
 MEK poor
 Methylene Chloride poor
 MIBK poor
 Nitric Acid, 5% poor
 Oil excellent
 Phosphoric Acid, 30% poor
 Salt Water excellent
 Skydrol® poor
 Toluene poor
 Urine excellent
 Xylene excellent

RATINGS: Poor - affected within 24 hours; Good - no effect for 24 hours; Excellent - no effect after 2 weeks.

NOTE: Where chemical resistance is rated as poor, check the ratings on EUCOTHANE as a possible topcoat for up-graded chemical resistance.

APPEARANCE

EUCOPOXY TUFcoat VOX is a two-component, epoxy-polyamide system consisting of a Part A and Part B. This product is available in white, light reflective, tile red, tan, brown, concrete gray, battleship gray, black, yellow, green, blue, terra cotta & clear (amber).

Note: The clear is not water clear and may not be suitable for some surfaces. EUCOPOXY TUFcoat DBS clear should be used if a water clear appearance is required.

COVERAGE

Coverage rate is 250 ft²/gal (6.1 m²/liter) at 6-7 mil (152-178 microns) wet film thickness. Use two coats for best appearance and protection.

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 two coat application using a coverage rate of 250 ft²/gal (6.1 m²/liter) per coat, approximately 8 gal (30.3 liter) of material will be required per 1000 ft² (92.9 m²) of area.

DIRECTIONS FOR USE

Surface Preparation-New concrete must be a minimum of 28 days old and possess an open surface texture with all curing compounds and sealers removed.

The concrete must be clean and sound. All oil, dirt, debris, paint and unsound concrete must be removed. The surface should be prepared mechanically using sandblast, shotblast or scarifier which will give an open surface profile with the cement paste removed from the surface.

The above surface preparation is that recommended by The Euclid Chemical Company. Acid etching is acceptable only when mechanical preparation is impractical. It is recommended that only contractors experienced in the acid etching process use this means of surface preparation. The salts of the reaction must be thoroughly pressure washed away. Allow the concrete to completely dry. NOTE: Even with proper procedures, an acid etched surface may not provide as strong a bond as mechanical preparation procedures. Also, acid etching will not remove oil, grease, sealers and other materials that will interfere with the bond on the surface of the concrete.

Joints and Edges-If the floor is subjected to wheel traffic the edges of the floor area should be sawcut 1/4" (6 mm) deep to provide a locked in edge. Moving joints as in the case of expansion joints should be brought up through the coating. All cracks over 1/16" (1.6 mm) wide

should be filled. Use a 100% solids epoxy mortar such as EUCO #456 MORTAR to fill wide cracks, joints and keyed edges.

Mixing-All materials should be in the proper temperature range of 60°F (16°C) - 90°F (32°C). Mix parts A and B (resin & hardener) separately for one minute using a drill and mixing prop. For ease of mixing, then add the part B to the part A (not the reverse).

Mix the Part A and Part B together for 2-3 minutes. The epoxy must be well mixed to ensure proper chemical reaction. After mixing, place immediately.

Placement-This product may be applied by squeegee, roller or industrial sprayer. After application, it is suggested the coating be back rolled to reduce surface imperfections and improve bond.

Top Coat-If desired, additional coats of this product or a topcoat of another EUCO product may be applied just after the initial coating has become tack-free. This could be as early as 4 hours but must be within 24 hours of initial coating placement.

The choice of topcoat such as EUCOTHANE is selected based upon chemical and wear resistance desired. Contact your local Euclid Chemical distributor or The Euclid Chemical Company directly for a recommendation for the particular circumstances.

The topcoat selected must be ordered separately.

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 below 50°F (10°C).
- Store indoors at 45° to 110°F (7° to 43°C).
- Keep material from freezing.
- Application of first coat in high humidity (>70% RH) environments may result in adhesion problems with second (finish) coat. A test area should be tried to insure proper results. If recoat problems are apparent, the base coat surface should be solvent wiped or lightly abraded to insure proper adhesion of the second/topcoat.

Form Eucopoly Tufcoat VOX-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.