

EUCOPOXY TUFCOAT

TWO-PART HIGH PERFORMANCE EPOXY COATING

DESCRIPTION

EUCOPOXY TUFCOAT is a high-performance floor-coating system designed to provide concrete surfaces with excellent wear resistance in combination with protection against chemical attack. These outstanding properties are further enhanced by the availability of a wide selection of semi-gloss colors for superior aesthetic benefits. EUCOPOXY TUFCOAT is a two-part coating that can be used as a primer for most products in the EUCOPOXY TUFCOAT line.

PRIMARY APPLICATIONS

- Food processing plants
- Warehouse floors
- Manufacturing plants
- Auto/truck repair bays
- Chemical plants
- Mechanical rooms

FEATURES/BENEFITS

- 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 nonslip floor finish
- Available in a variety of colors
- No separate primer required

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions.

Re-coat time	2 to 24 hours
Foot traffic	@24 hours
Wheel traffic	@48 hours
Dry to touch at 70°F (21°C)	2 hours
Pot life at 70°F (21°C)	6 to 8 hours
Mixing ratio by volume A to B	1 to 1
Total solids content	58%
Dry film thickness	3 to 4 mils/coat
Flexibility	good
Weathering	very good
VOC Content	
Clear	425 g/L
Colors	449 g/L
Abrasion Resistance: Taber Abrader CS-17 wheel with 1,000 gm/500 cycles	30.2 mg loss

Appearance: EUCOPOXY TUFCOAT is a 2-part epoxy system consisting of a Part A and a Part B. This product is available in Black, Clear (amber), Concrete Gray, Tile Red, Tan, Light Reflective and White. After placement and curing, the product has a smooth, semi-gloss appearance.

CHEMICAL RESISTANCE

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

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

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

PACKAGING

EUCOPOXY TUFCOAT is available in 2 gal (7.6 L) and 10 gal (38 L) kits. Mixing ratio is 1 to 1 by volume.

SHELF LIFE

2 years in original, unopened package.

SPECIFICATIONS/COMPLIANCES

- USDA Compliant

COVERAGE

Coverage rate is 250 ft²/gal (6.1 m²/L) at 6 to 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.



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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/L) per coat. Approximately 8 gal (30.3 L) 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 which will give an open surface profile with the cement paste removed from the surface. Surface profile should be equal to CSP 1 - 2 in accordance with ICRI Guideline 03732 at a minimum. **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) to 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, add the part B to the part A (not the reverse). Mix the Part A and Part B together for 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 6 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.

CLEAN-UP

Clean tools and equipment with solvent such as EUCO SOLVENT, acetone, 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°F to 110°F (7°C to 43°C).
- Use in a well ventilated area.
- Keep away from sparks and open flames.
- Product may yellow in outdoor (strong sunlight) environments. For use outdoors, topcoat with EUCOTHANE.
- Epoxy components may cause irritation. Avoid contact with eyes and skin.
- Apply only over dry concrete surfaces.
- Do not apply over hardened primer or old epoxy without proper surface preparation.
- Not recommended over new concrete less than 28 days old.
- If HVAC intake ducts will distribute solvent odor into adjoining occupied areas of the building, care should be taken to block these vents.
- In all cases, consult the Material Safety Data Sheet before use.

WARRANTY: The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year 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.