



THE EUCLID CHEMICAL COMPANY

19218 REDWOOD ROAD • Cleveland, OH 44110
(216) 531-9222 • (800) 321-7628 • FAX (216) 531-9596
www.euclidchemical.com

EUCOPOXY TUF COAT DBS PIGMENTED RESIN SYSTEM



DECORATIVE EPOXY SYSTEM

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EUCOPOXY TUF COAT DBS PIGMENTED RESIN SYSTEM provides an attractive seamless floor that is chemical and abrasion resistant. Utilizing a 100% solids epoxy and a pigmented color pack, EUCOPOXY TUF COAT DBS PIGMENTED RESIN SYSTEM can be applied to provide a smooth high gloss appearance.

TYPICAL APPLICATIONS

- Manufacturing plants
- Chemical processing
- Food processing
- Hospitals
- Locker rooms
- Walkways
- Kitchens
- Jails
- Schools
- Restaurants
- Rest rooms
- Lobbies

FEATURES/BENEFITS

- Decorative, aesthetic appearance
- Excellent chemical and abrasion resistance
- Alternative to trowel applied systems
- V.O.C. compliant-100% solids system
- Available in a variety of colors
- Easy to maintain

PACKAGING

EUCOPOXY TUF COAT DBS is a three component epoxy packaged in 3.5 gal (13.2 liter) kits.

- Part A Resin 2.0 gal (7.6 liter)
- Part B Hardener 1.0 gal (3.8 liter)
- Part C Color Pack 0.5 gal (1.9 liter)
- Total Liquid 3.5 gal (13.2 liter)

ORDERING

The TUF COAT color pack is ordered separately from the TUF COAT DBS EPOXY.

Colors available for DBS Color Pack product: white, light reflective, concrete gray, medium gray, black, beige, tile red and yellow.

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions.

- Re-coat time @ 5-7 hours
- Maximum re-coat time 24 hours
- Suitable for foot traffic. @ 72 hours
- Suitable for wheel traffic @ 48-72 hours
- Pot life (3.5 gal. kit) at 73°F (23°C) 16 minutes
- Working time over concrete at 73°F (23°C) 70 minutes
- Thickness: 10-20 mils (2.5-5.0 mm)

Compressive strength ASTM C-109

- 1 day 6,200 psi (42.8 MPa)
- 28 days 13,000 psi (89.7 MPa)

Tensile Strength ASTM D-638 - 2,000 psi (13.8 MPa)

Bond Strength ASTM C-882 - 2,100 psi (14.5 MPa)

Full Cure Time: 7 days

V.O.C. -294 g/l

Shelf Life: 2 years in unopened container.

Abrasion Resistance: Taber Abrader with CS-17 Calibrese wheel with 1,000 gm load/500 cycles yield a 48 gm loss.

CHEMICAL RESISTANCE

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

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

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

Appearance

EUCOPOXY TUFcoat DBS PIGMENTED RESIN SYSTEM is a 3 part epoxy system consisting of a Part A, (resin), a Part B (hardener) and a Part C (pigmented color pack).

After placement and curing, the product has a glossy appearance.

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.

COVERAGE

Best appearance is achieved with a 2 coat application.

80 ft²/gal = 20 mils (2.0 m²/liter = 0.5 mm)

107 ft²/gal = 15 mils (2.7 m²/liter = 0.38 mm)

160 ft²/gal = 10 mils (4.0 m²/liter = 0.25 mm)

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.

Mixing-All materials should be in the proper temperature range of 60°F (16°C) - 90°F (32°C).

Thoroughly mix together the Part A & Part B. The epoxy must be well mixed to ensure proper chemical reaction. Add Part C and mix for 2-3 minutes using a drill and mixing prop. Make sure there are no color streaks in the mix. After mixing, place immediately.

Placement-Two coat application for nominal 20 mil total thickness-Apply the mixed EUCOPOXY TUFcoat DBS PIGMENTED RESIN SYSTEM to the clean, prepared surface using a roller or squeegee at a coverage rate of 160 ft²/gal (4 m²/liter) or to specifications. Coverage rates will vary due to surface texture. Backrolling may be necessary to ensure complete

wetting, uniform thickness and removal of any roller or squeegee marks. No primer is needed. After the initial coat has dried tack free (but wait no more than 24 hours) apply the second coat following the same procedures.

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

- Cool temperatures extend working times and cure schedules, while warmer temperatures reduce them.
- For large jobs in higher than usual temperatures, consult The Euclid Chemical Company for alternative epoxy base coat.
- Avoid application at air and floor temperatures below 50°F (10°C).
- Store indoors at 45° - 110°F (7° - 43°C).



Form Eucopoly Tufcoat DBS Pigmented Resin System-3.01

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