



# THE EUCLID CHEMICAL COMPANY

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## EUCOPOXY TUF COAT DBS TROWEL OVERLAY MORTAR

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**WEAR RESISTANT EPOXY OVERLAY SYSTEM**

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### EUCOPOXY TUF COAT DBS TROWEL OVERLAY MORTAR

is a trowel applied epoxy mortar system designed to resurface floor slabs of all types. Worn and damaged floors can be restored to a uniform, high strength, wear resistant surface with the use of EUCOPOXY TUF COAT DBS TROWEL OVERLAY MORTAR. Because it is resistant to many commonly found chemicals, it is an excellent choice for protection against splash and spill chemical attack in combination with tough floor wear.

#### PRIMARY APPLICATIONS

- Industrial Floors
- Warehouses
- Machine shops
- Food processing plants
- Locker rooms
- Secondary chemical containment areas
- Common chemical processors
- Kitchens
- Docks
- Ramps
- High traffic aisleways
- Rest rooms

#### FEATURES/BENEFITS

- Easy to use 3 part system
- Suitable for 1/8"(3mm) to 2"(50mm) thicknesses
- Quick formula minimizes plant down time
- Solvent free and V.O.C. compliant 100% solids
- Resistant to wear and abrasion from vehicular traffic
- Can be applied with a non-slip surface
- Good for both new and old concrete
- Resistant to common chemicals
- High aggregate loading for thermal stability
- High bond and flexural strength for impact resistance

#### SPECIFICATIONS/COMPLIANCES

- ASTM C 881, Types II and IV, Grade 1, Class B & C

#### PACKAGING

EUCOPOXY TUF COAT DBS TROWEL OVERLAY MORTAR is a three component epoxy packaged in 2 cubic foot kits.

Part A	2.0 gal (7.6 liter)
Part B	1.0 gal (3.8 liter)
Part C	4 bags @ 55 lbs(22.7 kg) each

#### COVERAGE

Thickness	2.0ft3(0.057m3 kit)
1/4" (6mm)	96ft2 (9.0 m2)
1/2" (13mm)	48 ft2(4.5 M2)

EUCOPOXY TUF COAT DBS TROWEL OVERLAY PRIMER is the EUCOPOXY TUF COAT DBS TROWEL OVERLAY MORTAR without the aggregate addition and applied at a rate of 100-150 ft2/gal(2.5-3.7 m2L)

### TECHNICAL INFORMATION

#### Typical Engineering Data

The following results were developed under laboratory conditions.

Re-Coat time .....	@5-7 hours
Suitable for foot traffic .....	@24 hours
Suitable for wheel traffic .....	@48-72 hours
Pot life at 73°F (23°C) .....	25 minutes
Working time at 73°F (23°C).....	70 minutes

#### Compressive strength ASTM C-579

2 inch (50mm) cubes	
1 day .....	10,000 psi (69 MPa)
3 days .....	12,500 psi (86 MPa)
7 days .....	14,000 psi(97 MPa)
28 days .....	13,000 psi (89.7 MPa)

**Split Tensile Strength:** ASTM C-496- 2,300 psi (16.0 MPa)

**Flexural Strength:** ASTM C-580-4,300 psi (30 MPa)

**Bond Strength :** ASTM C-882-3,100 psi (21 MPa)

**Shelf Life:** 2 years in unopened container.

#### 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

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

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

## **APPEARANCE**

EUCOPOXY TUF COAT DBS TROWEL OVERLAY MORTAR is a 3 part epoxy system consisting of a Part A, (resin), a Part B, (hardener), and a Part C, (aggregate). After placement and curing, the product has a natural sand colored, glossy appearance. The degree of texture is determined by the amount of aggregate broadcast into the trowling technique and can be specified by the owner.

## **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.

Old concrete must be clean and rough. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a scabber, bushhammer, shotblast or scarifier which will give a surface profile of a minimum 1/8" (3mm) and expose the large aggregate of the concrete. The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or by pressure washing.

**Priming**-The surface must be primed with EUCOPOXY TUF COAT DBS EPOXY (without the aggregate addition) after the concrete surface has been prepared as indicated above. Apply the primer at the recommended coverage rate. Rougher surfaces may require a stiff broom to apply the primer while a relatively smooth, shotblasted surface will allow use of roller application.

**Mixing**-All materials should be in the proper temperature range of 60°F (16°C) - 90°F (32°C). Mix the Part A and Part B (resin and hardener) for 2 minutes using a drill and mixing prop. After mixing add Part C (aggregate). Mix for an additional 2 minutes or until all aggregate pieces are completely covered by epoxy. For large placements, mix the epoxy separately in a 5 gal (18.9 liter) pail then mix the epoxy and aggregate together in a mortar mixer. Place immediately.

**Placement**-Discharge material from mixer and place onto floor. For patching, spread with a trowel, come-a-long, or square tipped shovel to a thickness of about 1/8" (3mm) higher than the final desired height of the overlay. Compact and finish by hand or machine trowel.

**Sealing** If desired, the surface may be sealed or top coated with a topcoat of EUCOPOXY TUF COAT DBS EPOXY (without the aggregate addition). Additional chemical resistance may be achieved by topcoating with EUCOTHANE.

## **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.
- Avoid application at air and floor temperatures below 50°F (10°C).
- Store indoors at 45° - 110°F (7° - 43°C).
- Interior use only



Form Eucopoxy Tufcoat DBS Trowel Overlay-6.01

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