

EUCOPOXY TUFCOAT DBS TROWEL OVERLAY MORTAR

WEAR RESISTANT EPOXY OVERLAY SYSTEM



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DESCRIPTION

EUCOPOXY TUFCOAT 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 EUCOPOXY TUFCOAT 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
 - Kitchens, food processing & rendering plants
 - Docks and ramps
- Secondary chemical containment areas
 - Common chemical processors
 - High traffic aisle ways
 - Rest rooms
 - Locker rooms

FEATURES/BENEFITS

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

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions:

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

Compressive Strength ASTM C 579, 2" (50 mm) cubes

Age	Strength
1 day	10,000 psi (69 MPa)
3 days	12,500 psi (86 MPa)
7 days	14,000 psi (97 MPa)
28 days	15,000 psi (103 MPa)

Split Tensile Strength ASTM C 496
2,300 psi (16 MPa)

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

Bond Strength (ASTM C 0882)
3,100 psi (21 MPa)

Chemical Resistance

Acetic	Poor
Acetone	Good
AnimalFat.....	Excellent
Aromatic	Good
Battery	Excellent
Brake Fluid	Good
Caustic Soda 10%.....	Excellent
Citric	Good
Gasoline	Good
Hydrochloric 20%.....	Excellent
Fatty Acid.....	Excellent
Lactic	Excellent
MEK.....	Poor
Mineral Spirits.....	Excellent
Nitric 10%	Poor
Salts.....	Excellent
Sulfuric, 50%	Good
Toluene.....	Fair
Transmission Fluid	Good
Urine	Excellent
Xylene.....	Fair

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

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

Appearance: After placement, EUCOPOXY TUFCOAT DBS TROWEL OVERLAY MORTAR has a natural sand colored, glossy appearance. The degree of texture is determined by the amount of aggregate broadcast into the troweling technique and can be specified by the owner.



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PACKAGING/YIELD

EUCOPOXY TUFCOAT DBS TROWEL OVERLAY MORTAR is available in a three component 2 ft³ kit. Part A: 2.0 gal (7.6 L), Part B: 1.0 gal (3.8 L), and Part C: 4 bags @ 55 lbs (22.7 kg) ea. NOTE: Eucopoxy Tufcoat DBS Trowel Overlay Primer is the Eucopoxy Tufcoat Trowel Overlay Mortar without the aggregate addition and is applied at a rate of 100 to 150 ft²/gal (2.5 to 3.7 m²/L).

SHELF LIFE

2 years in original, unopened package.

SPECIFICATIONS/COMPLIANCES

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

COVERAGE

Coverage	Kit Size	Primer/Sealer Application	
<u>Thickness</u>	0.5 ft ³ (0.014m ³)	<u>Rough surface</u>	<u>Smooth Surface</u>
1/4" (6 mm)	24 ft ² (2.2 m ²)	60 to 80 ft ² /gal ¹	00 to 150 ft ² /gal
1/2" (13 mm)	12 ft ² (1.1 m ²)	(1.5 to 2.0 m ²)	(2.5 to 3.7 m ²)

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" (3 mm) 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 pressure washing.

Priming: The surface must be primed with EUCOPOXY TUFCOAT 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) to 90°F (32°C). Mix parts A and B (resin & hardener) for 2 minutes using a drill and mixing prop. After mixing, add Part C. Mix for an additional 2 minutes or until all aggregate pieces are completely covered by the epoxy. For large placements, mix the epoxy separately in a 5 gal (18.9 L) 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" (3 mm) 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 EUCOPOXY TUFCOAT DBS EPOXY (without aggregate addition). Additional chemical resistance can be achieved by topcoating with EUCOTHANE.

CLEAN-UP

Clean tools and equipment with solvent such as EUCCO 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°F to 110°F (7 to 43°C),
- Interior use only.
- In all cases, consult the Material Safety Data Sheet before use.

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