



THE EUCLID CHEMICAL COMPANY

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SUPER EUCO-TOP

METALLIC FLOOR TOPPING

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SUPER EUCO-TOP is an iron aggregate floor topping, combining graded iron aggregate, cement, and chemical agents. The iron aggregate is clean and completely free of oil, grease, and oxidation. SUPER EUCO-TOP affords tremendous resistance to high impact and abrasion conditions. It provides excellent surface durability for critical areas of a floor which cannot be closed to traffic easily or economically.

PRIMARY APPLICATIONS

- Industrial floors
- Warehouses
- Loading docks
- Tipping floors
- Towveyors
- High traffic aisleways
- Resource recovery plants
- Maintenance garages for heavy duty equipment

FEATURES / BENEFITS

- Provides an impact resistant wearing surface with greater strength than standard EUCO-TOP.
- Gives up to 8 times the abrasion resistance of plain, cured concrete.
- Iron aggregate is free of rust, oil, and non-ferrous materials.
- Dense surface resists penetration of oil, grease, and many other liquids.
- Virtually non-dusting in service.
- Easy to clean and maintain.
- Economical to own over the life of the floor.
- Available as a screedable material only.

PACKAGING / YIELD

SUPER EUCO-TOP is packaged in easy to use 50 lb (22.7 kg) bags with polyethylene liners for moisture protection. Material is shipped on pallets, 64 bags per pallet. Also available in 3300 lb (1497 kg) bulk bags suitable for mixing in ready mix trucks for large topping placements.

One 50 lb (22.7 kg) bag will yield 0.23 ft³ (0.007 m³) of mixed topping or enough material to cover 2.75 ft² (0.25 m²) at a 1" (25 mm) thickness when mixed with 0.5 gal (1.9 liter) of water.

TECHNICAL INFORMATION

Typical Engineering Data

Compressive Strength

ASTM C 109 2" (50 mm) - Cubes

Age	Strength
1 day	7,000 psi (48.3 MPa)
3 days	9,000 psi (62.1 MPa)
7 days	10,000 psi (69.0 MPa)
28 days	12,000 psi (82.8 MPa)

Flexural Strength ASTM C 78:

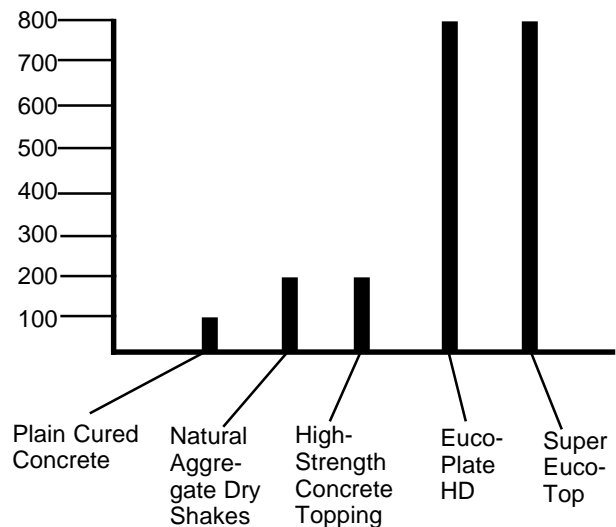
28 days	1,800 psi (12.4 MPa)
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The floor may be returned to service within 72 hours of topping placement @ 70°F (21°C).

RELATIVE ABRASION RESISTANCE

ASTM C 779 MAXIMUM RANGES

% of Reference



Appearance-SUPER EUCO-TOP is a free flowing powder which is mixed at the job site with water and is normally placed at a 6-8" (152-203 mm) slump. SUPER EUCO-TOP is an iron aggregate topping which has a very dark gray appearance after installation. The final troweled appearance can be any texture consistent with that expected from concrete and should be specified by the owner.

COVERAGE

Monolithic Application

9 lb/ft² (45 kg/m²) at 1/2" (13) min.

18 lb/ft² (90 kg/m²) at 1" (25)

37 lb/ft² (180 kg/m²) at 2" (51) max.

Two Course Bonded Application

14 lb/ft² (68 kg/m²) at 3/4" (19 mm) min.

18 lb/ft² (90 kg/m²) at 1" (25 mm)

37 lb/ft² (180 kg/m²) at 2" (51 mm) max.

DIRECTIONS FOR USE

Surface Preparation-New concrete must be a minimum of 28 days old if an epoxy adhesive will be used to bond the topping. If a latex bonding agent is used, the concrete must be a minimum of 3 days old and must be textured at the time of placement to secure a good mechanical bond of the topping. If the new concrete is not finished with an appropriate texture, follow surface preparation procedures below for old concrete.

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 scabblers, 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.

All concrete must possess an open surface texture with all curing compounds and sealers removed.

Joints and Edges-Edges should be sawcut to 1/4" (6 mm) deeper than the topping thickness and notched at the edge of the overlay to provide a locked in degree. Chip the edge with a hand held chipping hammer to provide the wedge shaped notch. Moving joints as in the case of expansion joints should be brought up through the overlay by sawcutting or with the use of a divider strip. All cracks over 1/16" (1.6 mm) wide should be routed out to a 1/4" (6 mm) width and 1/4" (6 mm) depth prior to application of the mortar.

Bonding-After the surface has been prepared, prime all areas with either EUCO #452 EPOXY or an SBR LATEX slurry. Note: If a latex slurry is used, the substrate surface must have a highly scabbled appearance. The profile must be a minimum of 1/4" (6 mm) for use of a latex slurry for bonding. Follow mixing and placing instructions on the corresponding technical data sheet. Place the topping on the wet or 'tacky' primer before it cures.

Primer must be ordered separately.

Mixing-Small quantities may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer for large jobs. All materials should be in the proper temperature range of 60°F (16°C) - 90°F (32°C). Add the appropriate amount of water for the batch size and then add the dry product. Mix a minimum of 3 minutes. The mixed product should be quickly transported to the repair area and placed 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 that matches the surrounding concrete. Finish by hand trowelling.

On large floor areas, use screed strips as guides in combination with vibratory screeding to level. Compact and finish by hand or machine trowel.

Finishing-Finish the topping to the desired texture. Do not add additional water to the surface during the finishing operation. If additional liquid is required, use EUCOBAR finishing aid.

Curing and Sealing-Proper curing procedures are important to ensure the durability and quality of the topping. To prevent surface cracking, cure the floor as soon as possible with a high solids curing compound, such as SUPER AQUA-CURE VOX or SUPER REZ-SEAL. After the curing compound has dried, rewet the surface and cover with polyethylene for a minimum of three (3) days.

Curing compound must be ordered separately.

If a curing compound is not desired, wet cure for a minimum of seven (7) days.

CLEAN-UP

Clean tools and equipment with water before the material hardens.

Shelf life is 1 year in original, unopened package.

PRECAUTIONS / LIMITATIONS

- Do not use material at temperatures below 45°F (7°C).
- No heavy traffic until the product has cured.
- Do not use over air-entrained concrete when placing monolithically.
- Do not use over concrete containing calcium chloride or chloride based admixtures.
- Proper curing and sealing is required.
- Not for use in areas subject to de-icing salts or chemical attack.
- Store in a dry place.

Form Super Euco-Top-9.99

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