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

✕ENG.SPECS ◆CATALOG INDEX
◆MSDS ◆SECTION INDEX
✕FRENCH ◆PRINT
◆SPANISH ◆EXIT CATALOG

EUCO TF 1000

WEAR AND HEAT RESISTANT INDUSTRIAL TOPPING

EUCO TF 1000 is a unique floor topping system, combining graded aggregate, specialty cements, and chemical agents. EUCO TF 1000 affords high resistance to impact and abrasion conditions. It provides excellent surface durability for high traffic areas of a floor which cannot be closed to traffic easily or economically. The unique nature of this material also offers high temperature stability as well as chemical resistance not normally found in a cementitious system. Floors may be returned to service 3 days after placement.

TYPICAL APPLICATIONS

- Industrial floors
- Warehouses
- Loading docks
- Maintenance garages for heavy duty equipment
- High traffic aisleways
- Resource recovery
- Towveyors
- Metal processing areas

FEATURES / BENEFITS

- Provides a high strength, impact resistant wearing surface
- Gives abrasion resistance far superior to that of plain, cured concrete
- The aggregate is non-rusting and highly abrasion resistant
- 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
- Will withstand temperatures in excess of 2000°F (1093°C). A 2" (50 mm) min. thickness is required for applications involving heat resistance
- Resistant to weak organic acids

PACKAGING

EUCO TF 1000 is packaged in 70 lb. (32 kg) bags with polyethylene liners for moisture protection. EUCO TF 1000 is also available in bulk 3300 lb. (1497 kg) bags for large placements.

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions.

Compressive Strength

2"(50 mm) Cubes ASTM C109

Age	EUCO TF 1000
3 days	11,000 psi (76 MPa)
7 days	12,000 psi (83 MPa)
28 days	13,000 psi (90 MPa)

Flexural Strength, ASTM C78

14 days	1,800 psi (12 MPa)
28 days	2,000 psi (14 MPa)

COVERAGE RATES

Monolithic Application

15 PSF (90.6 kg/m^2) at 1" (25 mm)
30 PSF (181.2 kg/m^2) at 2" (50 mm) max.

Two Course Bonded Application

14.5 PSF (87.8 kg/m^2) at 1" (25 mm)
29 PSF (175 kg/m^2) at 2" (50 mm) max.

YIELD

One 70 lb. (32 kg) bag when mixed with .56 gallons (2.1 liter) of water will yield approximately 0.46 ft^3 (0.013 m^3) of topping or enough material to cover 5.5 ft^2 (0.51 m^2) at 1" (25 mm) thickness.

DIRECTIONS FOR USE

In general, the guidelines presented in ACI 302 for floor slab construction should be followed.

Surface Preparation-The surface over which EUCO TF 1000 is to be placed must be free of all loose dust, dirt, debris and unsound concrete. The surface texture must have a profile of 1/4" (6.4 mm) or more. The best methods for roughening are scabbling and milling. Questionable concrete that cannot be properly cleaned and textured should be profiled and anchored with mechanical studs to assure an integral bond. EUCO TF 1000 may be placed monolithically on fresh concrete.

Bonding

Monolithic Placement

The surface of the fresh concrete must be 'tined' to provide a profile of 1/4" and a series of 3" long nail-type anchors placed on 16" center around the perimiter of the concrete...each protruding 1/2" into the subsequent topping. The TF 1000 may be place anytime within the next 24 hours.

Applications below 150ºF (65ºC)(exisiting concrete)

After proper surface preparation, use Euco #452 MV as a bonding agent. Application rate will be approximately 75 ft^2/gal. over a 1/4" profiled surface.

Applications above 150ºF (65ºC)(existing concrete)

After proper surface prepatation, broom apply a slurry coat utilizing EUCO TF 1000.

Mixing-Bags of EUCO TF 1000 should be mixed with a rotary type concrete mixer or paddle type mortar mixers in good running condition. Mix 2 to 4 bags per batch using .56 gallons (2.1 liter) of water per bag. Add the water to the mixer first and follow with the EUCO TF 1000 powder. Mix thoroughly for 3 to 5 minutes until achieving a 9" to 10" (225-250 mm) slump. Contact The Euclid Chemical Company for instructions on mixing bulk bags.

Placement-EUCO TF 1000 can be placed by direct discharge, buggy, wheelbarrow or pump. Working time is a minimum of 45 minutes. EUCO TF 1000 is placed at a 9" to 10" (225-250 mm) slump and should be screeded to the proper level. Use of an evaporation retardant (Eucobar) is recommended after placement.

Finishing-The finish may be acceptable after initial placement providing a slightly textured surface. Light hand troweling may be done, for a smoother finish, as the material sets. The surface must be covered with polyethylene while waiting to finish.

Curing-Proper curing of EUCO TF 1000 is very important.* 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 two coats of a high solids curing compound, such as SUPER AQUA-CURE VOX or SUPER REZ-SEAL.

If a curing compound is not desired, wet cure for a minimum of three (3) days. After 3 days of curing EUCO TF 1000 should be allowed to dry out for 5 days before exposing to high temperatures. Exposure to high temperatures without a drying period can result in cracking, or pop-out scaling.

* When placing at thicknesses over 1" (25 mm) significant heat may be given off. The topping temperature must be maintained at less than 100ºF (38ºC) to avoid thermal cracking. Application of cool water during the first 48 hours of curing is recommended.

PRECAUTIONS AND LIMITATIONS

- Do not use over air-entrained concrete when placing monolithically.
- Proper curing is required.
- No heavy, abusive traffic until product has cured.

Form Euco TF 1000 -9.99