



EUCOFLOOR 202

WEAR, IMPACT, AND ABRASION RESISTANT FLOOR TOPPING

DESCRIPTION

EUCOFLOOR 202 is a high strength, natural aggregate floor topping. The product is used in areas subject to moderate wear, impact, and abrasion. EUCOFLOOR 202 consists of natural aggregates combined with a high-strength cement-based mortar. The product was developed specifically for moderate abrasion applications and is designed for waste transfer station tipping floors. The floor may be returned to light wear service within 48 hours of topping placement, at 70°F (21°C)

PRIMARY APPLICATIONS

- Waste transfer station tipping floors
- Industrial floors

FEATURES/BENEFITS

- High wear, abrasion, and impact resistance
- High early strength for quick turnaround time

TECHNICAL INFORMATION

PROPERTY	RESULT
Unit Weight ASTM C138	140.0 lb/ft ³ (2,243 kg/m ³)
Flow ASTM C1437	110 to 130%
Slump ASTM C143	6 to 9 inches (15 to 23 cm)
Set Time ASTM C403	Final: 3 to 4 hours @ 70°F (21°C)
Compressive Strength (2"/5.1 cm cubes) ASTM C109	1 day: 4,500 psi (31.0 MPa) 7 days: 6,500 psi (44.8 MPa) 28 days: 10,000 psi (68.9 MPa)
Compressive Strength (4" x 8"/10 x 20 cm cylinders) ASTM C39	7 days: 6,000 psi (41.4 MPa) 28 days: 8,000 psi (55.2 MPa)
Rapid Chloride Permeability ASTM C1202	7 days: 3,000 coulombs 28 days: 750 coulombs
Length Change ASTM C157	50% RH, 28 days: -0.050% 100% RH, 28 days: +0.050%

The properties above depend upon curing temperature. The data given are typical for curing at 70°F (21°C).

Water Content: 0.45 to 0.51 gallon (1.7 to 1.9 L) per 50 lb (22.7 kg) bag
27.0 to 30.6 gallons (102.2 to 115.8 L) per 3,000 lb (1360.8 kg) super sack

PACKAGING

One 50 lb (22.7 kg) bag of EUCOFLOOR 202 will yield 0.35 ft³ (0.010 m³), and will cover 2.10 ft² (0.20 m²) at 2 inch (5.1 cm) depth. EUCOFLOOR 202 is also available in 3,000 lb (1,360.8 kg) super sacks.

SHELF LIFE

1 year in original, unopened package.

DIRECTIONS FOR USE

Surface Preparation: Concrete surfaces must be structurally sound, free of loose or deteriorated concrete, and free of dust, dirt, paint, efflorescence, oil and all other contaminants. Mechanically abrade (a heavy shotblast is strongly suggested) the surface to obtain a surface profile equal to CSP 5-7 in accordance with ICRI Guideline 310.2. Properly clean the profiled area. If the concrete is questionable (weak, punky, heavily contaminated, etc.), it is suggested that cores be taken and analyzed by a qualified petrographer for suggestions on proper surface preparation prior to the topping being placed.

Perimeter Keyway: At the termination point of the topping, feather-edging the material to meet the surrounding concrete is not acceptable. The topping needs to be secured around the perimeter of the placement by saw cutting or “keying” into the base slab. The keyway should be a minimum of 1 in. (2.54 cm) deep and ideally undercut back into the base concrete. This will allow the topping to have an adequate thickness at the termination point where the topping meets the adjacent slab.

Priming: Apply properly mixed EUCOFLOOR EPOXY PRIMER (see product data sheet for mixing instructions) to the prepared concrete at a rate of 75 to 100 ft²/gal (1.8 to 2.5 m²/L) over a highly textured surface (coarse aggregate showing). Squeegee the epoxy into place, mechanically scrub the epoxy into the surface of the base concrete and then backroll to ensure a uniform application. Remove any puddles of epoxy that may occur. While the epoxy primer is still wet, broadcast a washed and dried silica sand (recommended 16/30 mesh gradation) until the surface is completely covered with sand and appears dry. If any of the sand looks damp, apply more sand to that area. Allow the epoxy to cure, preferably over night. After the epoxy has cured, remove all loose, unbonded sand by sweeping and vacuuming prior to the topping application. **Note:** The epoxy primer will form a vapor barrier on the surface. The moisture vapor transmission (MVT) rate of the base slab must be tested prior to application of the primer to ensure it is under an acceptable amount (3 lbs/1,000 ft²/24 hour period).

Mixing: For best results, all materials should be conditioned to the proper temperature range of 55 to 85°F (13-29°C). The mixing water range for EUCOFLOOR 202 is from 7.5% to 8.5% by weight. For 50 lb (22.7 kg) bags, use 0.45 to 0.51 gal (1.7 to 1.9 L) of potable water. Mix with the appropriate amount of water for 3 minutes. When using 3,000 lb (1360.8 kg) super sacks, mix in a clean ready-mix truck with 27.0 to 30.6 gallons (102.2 to 115.8 L) of potable water per super sack. Mix in the truck for 7 to 10 minutes after the final addition of the material and water. EUCOFLOOR 202 will have a 7 to 8 inch (17 to 20 cm) slump. If the placement depth of EUCOFLOOR 202 is thicker than 2 inches (5.1 cm), extend the product with washed and dried 3/8 inch (9.5 mm) pea gravel. The extension rate will be 15% by weight of powdered material.

Placement: Minimum thickness for EUCOFLOOR 202 is 1 inch (2.54 cm). Place the material on the prepared substrate and move into place with shovels and concrete rakes. The use of a light duty vibratory or roller screed for large placements is necessary. Immediately after screeding, apply a coat of diluted Eucobar (see technical data sheet for mixing instructions). This will reduce evaporation and aid in floating. After the material is in place, float the surface smooth and flatten it out. Once the product has set sufficiently, the topping will accept a trowel machine and can be finished similarly to concrete. EUCOFLOOR 202 is more susceptible to blistering while power troweling. **DO NOT USE WATER WHEN TROWELING.** If additional lubrication is needed, use Eucobar.

NOTE: Always re-establish the joints from the base concrete up through the topping.

Curing: EUCOFLOOR 202 must be cured with a high solids curing compound immediately after troweling. Use Super Diamond Clear VOX at a rate of 250 to 300 ft²/gal (6.14 to 7.36 m²/L). If conditions are unusually dry, water cure after placement of the curing compound and cover with plastic film or blankets.

CLEAN-UP

Clean tools and equipment with water before the material hardens.

PRECAUTIONS/LIMITATIONS

- Store product in a dry place
- Use only potable water for mixing
- Do not use material at temperatures below 45°F (7°C)
- Do not allow repairs to freeze until the material has reached a minimum 1,000 psi (6.9 MPa) compressive strength.
- Always mix full units
- EUCOFLOOR 202 is mixed to a self-consolidating consistency. Adding more or less water will lead to a significant reduction in performance.
- The final finish of the product has a slightly textured, oatmeal appearance.
- Always use good concrete practices in hot & cold weather, per ACI guidelines.
- In all cases, consult the Safety Data Sheet before use.

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