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	TEST METHOD	RESULT
Unit Weight	-	140 lb/ft^3 (2,240 kg/m^3)
Flow	ASTM C 1437	110 to 130%
Slump	ASTM C 143	6 to 9 inches (15 to 25 cm)
Compressive Strength (2 inch/5.1 cm cubes)	ASTM C 109	1 day: 4,500 psi (31 MPa) 7 days: 6,500 psi (45 MPa) 28 days: 10,000 psi (69 MPa)
Compressive Strength (4 x 8 inch/10 x 20 cm cylinders)	ASTM C 39	7 days: 6,000 psi (41 MPa) 28 days: 8,000 psi (55 MPa)
Set Time	ASTM C 403	Final Set: 3 to 4 hours @ 70°F (21°C)
Shrinkage	ASTM C 157	28 days: -0.050%
Expansion	-	28 days: 0.050%
Rapid Chloride Permeability	ASTM C 1202	7 days: 3000 coulombs 28 days: 750 coulombs

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 gal (102 to 116 L) per 3000 lb (1361 kg) super sack

Packaging/Yield

One 50 lb (22.7 kg) bag of EucoFloor 202 will cover 2.1 ft^2 (0.20 m^2) at 2 inch (5.1 cm) depth.

Shelf Life

1 year in original, unopened package.

The Euclid Chemical Company
19218 Redwood Rd. • Cleveland, OH 44110
Phone: [216] 531-9222 • Toll-free: [800] 321-7628 • Fax: [216] 531-9596
www.euclidchemical.com

An RPM Company

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 the surface to achieve a surface profile equal to CSP 5-7 in accordance with ICRI Guideline 310.2. Properly clean profiled area.

Perimeter Keyway: Feather edging the material to meet the surrounding concrete is not acceptable. Secure the material along the exposed edges by saw cutting and keying the material into the base slab. The keyway must be a minimum of 1" (2.54 cm) deep beneath the surface of the surrounding concrete. This will allow the topping to have an adequate thickness at the termination point where the topping meets the adjacent slab.

Priming: Apply mixed EucoFloor Epoxy Primer (see product data sheet for mixing instructions) to the properly prepared substrate at a rate of 75 to 100 ft^2/gal (1.8 to 2.5 m^2/L). Squeegee the epoxy into place, scrub it in to the substrate, then backroll to ensure a uniform application. While the epoxy is still wet, broadcast a washed & dried 16/30 mesh silica sand onto the surface until it is completed saturated with sand and appears dry. Application rate for the silica sand is approximately 1 lb/ft (4.9 kg/m^2). After the sand is applied, the surface should have a uniform appearance with no damp or wet areas visible. If so, apply more sand to those areas until they appear dry. Allow the epoxy to cure, preferably overnight. After the epoxy has cured, remove all loose, unbonded sand by sweeping and/or vacuuming it off prior to topping application.

Mixing: For best results, all materials should be conditioned to the proper temperature range of 55-85° F (13-29° C). The mixing water range for EucoFloor 202 is from 7.5% - 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 small bags with the appropriate amount of water for 3 minutes. When using 3,000 lb (1361 kg) super sacks, mix in a clean ready-mix truck with 27.0 to 30.0 gal (102 to 114 L) 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 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 to a smooth and flatten it out. Once the product has set sufficiently, the topping will accept a trowel machine and can be finished similar 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 ft^2/gal (6.1 to 7.4 m^2/L). If conditions are unusually dry, water cure after placement of the 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 (7 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 decline 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 Material Safety Data Sheet before use.

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