

# EucoFloor 24

Cementitious, Semi-Self-leveling, Decorative Topping

## Description

EUCOFLOOR 24 is a single-component, cement-based, semi-self-leveling mortar specially designed for easy application over existing, properly prepared concrete substrates to provide a new wearing surface that is both durable and decorative. EUCOFLOOR 24 can be placed and left in its natural state for a smooth, concrete finish. In addition, it can be integrally colored, dyed, stained, epoxy coated or polished for a decorative finish. EUCOFLOOR 24 can be opened to foot traffic in 6 to 8 hours and can be open to rubber tire traffic after 24 hours

## Primary Applications

- Leveling interior sound concrete substrates
- Retail/commercial flooring
- Television studio & surgical suite leveling
- Warehouse aisleways
- Decorative/polished wearing surfaces
- Schools/institutional floors

## Features/Benefits

- Fluid consistency for semi self-leveling applications
- Can be integrally colored
- Floor can be dyed or stained within a few hours
- High early strength for rapid turnaround
- Polishable in 24 hours
- Excellent self-healing properties
- Portland cement base accepts liquid densifiers
- Can be used as an underlayment

## Technical Information

### Typical Engineering Data

The following results were developed under laboratory conditions when mixed with 5 litres of water:

**Compressive Strength** ASTM C 109 2" (50 mm) cubes

24 hours ..... > 14 MPa  
7 days ..... > 20 MPa  
28 days ..... > 30 MPa

**Shrinkage** ASTM C 157 (24 hr cure).....-0.046%

**Flow Time**.....approx. 15 min

**Unit Weight** .....approx. 133 lb/ft<sup>3</sup> (2,131 kg/m<sup>3</sup>)

**Set Time** ASTM C 191

Initial.....approx. 45 min

Final.....approx. 1 hr

**Flexural Strength** ASTM C 348

7 days.....800 psi (5.5 MPa)

28 days.....900 psi (6.2 MPa)

**Appearance:** EUCOFLOOR 24 is a free-flowing powder designed to be mixed with only potable water. It cures to a light concrete gray finish.

## Packaging/yield

EUCOFLOOR 24 is packaged in 25kg bags that yield approximately 13 litres of material.

## Shelf Life

1 year in original, unopened bag

## Coverage

Coverage (neat) is approximately 1.3m<sup>2</sup> at 10mm thickness

## Directions for Use

**Surface Preparation:** Concrete surfaces must be structurally sound, free of loose and 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 3 - 5 in accordance with ICRI Guideline 310.2. Properly clean profiled area.



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**Priming:** Concrete shall be primed with a roller coat of Pro-Struct 610/601. Allow primer to fully dry prior to the application of EUCOFLOOR 24. Alternately, the concrete can be primed with Stonprime 739SL Epoxy Primer and broadcast to refusal with clean and dry silica sand # 6222. Once the epoxy primer has hardened, remove excess silica sand. Stonprime SL739 Epoxy Primer must be used as the primer in areas subjected to periodic wetting cycles or if the substrate has the potential for outgassing, or if the material will be mechanically polished.

**Mixing:** All materials should be in the proper temperature range of 60°F (16°C) to 90°F (32°C). Single bags of EUCOFLOOR 24 may be mixed in a pail with a drill and “jiffy” mixer at low speeds to avoid entrapping air into the mixed product. Larger projects are best mixed and placed with standard grouting or self-leveling equipment. Add the amount of water, 4.0 to 5.0 litres per bag and then add the dry product. Do not use excessive water, which will cause bleeding or segregation. UNDER NO CIRCUMSTANCES USE MORE THAN 5.0 litres OF WATER PER 25KG BAG. Mix a minimum of 4 minutes. If bucket mixed, the product should be quickly transported to the repair area and placed immediately. If an integral color will be added, place the colorant in the mixing water first and then add the powder as described. For a multiple bag batch, color and “box” all mixing water up front to ensure even distribution.

**Application: Minimum:** 2mm. **Maximum (neat):** 30mm – minimum 10mm for polishing. The product must be continuously placed to provide a smooth and uniform surface. Start in one corner placing a continuous stream of material along one edge of the area and back lap as soon as possible for a uniform, smooth surface. Spread the material to the desired thickness with a gauge rake. Use a spiked roller to quickly remove any entrapped air bubbles. Follow the spiked roller with a smoother, fresno, or walking trowel to remove any remaining dimples caused by the spiked roller. \*\*For areas that exceed 30mm in depth, extend each bag of EUCOFLOOR 24 with 12,5kg of Pro-Struct 53MC aggregate. Place immediately. If a smooth finish is required, place the extended EUCOFLOOR 24 to within 9.5mm of the finished elevation and allow to dry.

**Finishing:** This product is semi self-leveling and requires no finishing or troweling operation.

**Curing:** EUCOFLOOR 24 does not require curing with standard methods for most applications. Do not apply under hot, windy or rapid drying conditions.

**Decorative Finishes:** Once the EUCOFLOOR 24 has sufficiently hardened to support foot traffic in 2 to 4 hours, decorative treatments such as water or solvent based dyes/stains and acid stains can be applied. Follow dye/ stain manufacturer’s instructions for application and neutralization (if necessary). If the product is going to be polished, please allow EUCOFLOOR 24 at least 24 hours prior to beginning this process.

## Clean-Up

Clean tools and equipment with water before the material hardens.

## Precautions/Limitations

- If EUCOFLOOR 24 is going to be used in a decorative application, a test section must be completed to verify desired results.
- Do not use EUCOFLOOR 24 as a heavy-duty wearing surface for industrial floors. Steel and hard plastic wheels are detrimental to the service life of this material. Dragging wood pallets with protruding nails or screws will gouge the flooring.
- EUCOFLOOR 24 is meant for interior applications only.
- Direct sunlight prior to or during placement may cause outgassing.
- Do not add admixtures or calcium chloride.
- If the Stonprime 739SL Epoxy Primer is to be used, make sure there is a vapor barrier if this will be placed on a slab on grade.
- Do not use if ambient temperatures will fall below 16°C or above 30°C within 72 hours after placement.
- Contact and rely upon floor covering manufacturer for specific requirements regarding maximum moisture content, adhesive selection and intended end use of the product prior to application of floor coverings.
- Store in a dry place.
- In all cases, consult the Material Safety Data Sheet before use.

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