

EUCO SUPER FLO-TOP 512

Cementitious, Self-levelling Underlayment & Wear Surface

Description

SUPER FLO-TOP is a single-component, cement based, free-flowing, self-leveling compound specially designed for easy application over concrete floors as an underlayment for subsequent placement of floor coverings. It is suitable for use as a repair and leveling course and may be applied at thicknesses from featheredge to 20mm neat. SUPER FLO-TOP may be used as a wear surface when protected by Stonhard flooring systems. Recommended product for leveling of floor prior to application of epoxy or polyurethane screeds.

Primary Applications

- Leveling interior or exterior (see precautions/limitations) sound concrete surfaces
- Leveling wood subfloors
- Repair of old, worn concrete
- Old floors with cut back adhesive

Features/Benefits

- Fluid consistency for self-leveling applications
- Pumpable through standard equipment
- Self-leveling for smooth, flat floors
- Minimal shrinkage and outstanding resistance to cracking
- High early strength for early turnaround
- Excellent bond strength
- Excellent self-healing properties
- Extended open time

Technical Information

Typical Engineering Data

The following results were developed under laboratory conditions:

Compressive Strength ASTM C109 2" (50 mm) cubes

| Age | Strength |
|----------------|----------|
| 24 hours | > 20 MPa |
| 7 days | > 30 MPa |

Bond Strength ASTM C 1583

| Age | Strength |
|---------------|----------|
| 7 days | 1.7 MPa |
| 28 days | 1.9 MPa |

Unit Weight.....25kg

Set Time ASTM C 191 (21°C) 2 to 3 hrs

Appearance: SUPER FLO-TOP is a free-flowing powder designed to be mixed with water, then it dries to a light gray finish.

Packaging/yield

SUPER FLO-TOP 512 is packaged in 25kg bags that yield approximately 14 litres of material.

Shelf Life

1 year in original, unopened package

Coverage

Coverage is approximately 3,5m² at 4mm thickness



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 3 - 5 in accordance with ICRI Guideline 310.2. Properly clean profiled area.

Priming: Concrete should be primed with Pro-Struct 610 diluted 1:1 with water. If system is to be overcoated with our Stonclad UL or Stonclad UT, the concrete must be primed with Stonprime SL 739 broadcast with Stonhard # 6222 aggregate.

Mixing: All materials should be in the proper temperature range of 16°C to 32°C. Single bags of SUPER FLO-TOP may be mixed in a pail with a drill and "jiffy" mixer. Larger projects are best placed with standard grouting or underlayment equipment. Add the appropriate amount of water, 4 to 4,5 litres per bag and then add the dry product. Do not use water at a rate that will cause bleeding or segregation. UNDER NO CIRCUMSTANCES USE MORE THAN 4,5 LITRES OF WATER PER 25 KG BAG. Mix a minimum of 4 minutes. If bucket mixed, the product should be quickly transported to the repair area and placed immediately.

Application: For applications over 20mm in thickness, add 12,5kg of Pro-Struct 53MC aggregate to extend the initial layer. Placement options include screeding or the use of pre-placed aggregate. Apply a bond coat to the surface of the initial layer and place additional underlayment to achieve the final smooth surface.

Placement: 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. Tools such as spiked rollers, notched squeegees, trowels and smoothers may be used to assist placement.

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

Curing: (See Precautions/Limitations) SUPER FLO-TOP does not require curing with standard methods for most applications. DO NOT apply under hot, windy or rapid drying conditions.

Clean-Up

Clean tools and equipment with water before the material hardens.

Precautions/Limitations

- Do not use SUPER FLO-TOP as a heavy-duty wearing surface for industrial floors.
- SUPER FLO-TOP is not to be used in areas of constant water exposure or in areas exposed to permanent or intermittent substrate moisture, for this could jeopardize the performance of the underlayment and floor covering.
- SUPER FLO-TOP is not a vapor barrier and will allow free passage of moisture.
- Do not add admixtures or calcium chloride.
- Do not use if ambient temperatures that will fall below 16°C or above 30°C within 72 hours after placement.
- Do not allow freshly placed SUPER FLO-TOP to freeze for 7 days.
- 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.
- Not for use in freeze-thaw environments.
- If placing SUPER FLO-TOP over a wood floor, it is very important to secure the floor solidly to prevent all movement.
- In all cases, consult the Material Safety Data Sheet before use.

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