



EUCLID CHEMICAL

EUCOFLOOR SL160 M

CEMENTITIOUS, SELF-LEVELING UNDERLAYMENT

DESCRIPTION

EUCOFLOOR SL160 M 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 30mm neat. **EUCOFLOOR SL160 M** may be used as an indoor, light-duty (foot traffic only) wearing surface, when protected by a Euclid Chemical epoxy/urethane system.

PRIMARY APPLICATIONS

- Leveling interior or exterior (see precautions/limitations) sound concrete surfaces
- Leveling wood subfloors
- Over radiant heat systems
- Indoor light duty wearing surface (see precautions/limitations)

FEATURES/BENEFITS

- Fluid consistency for ease in application
- Self-leveling for smooth, flat floors
- High early strength for early turnaround
- Excellent bond strength
- Pumpable through standard equipment
- Minimal shrinkage and outstanding resistance to cracking
- Outstanding self-healing properties

TECHNICAL INFORMATION

Typical Engineering Data: The following results were developed under laboratory conditions when mixed with 5.8L of water:

Compressive Strength ASTM C 109 (50 mm) cubes

24 hours.....10 MPa

7 days.....25 MPa

28 days.....28 MPa

Shrinkage ASTM C 157 (24 hr cure).....-0.040%

Flow Time.....approx. 25min

Unit Weightapprox. 1,850 kg/m³

Set Time ASTM C 191

Initial.....approx. 45min

Final.....approx. 1 hr

Flexural Strength ASTM C 348

7 days..... 3.8 MPa

28 days.....4.1 MPa

PACKAGING/YIELD

EUCOFLOOR SL160 M is packaged in 25kg bags that yield approximately 0.016m³ of material.

SHELF LIFE

1 year in original, unopened bag

COVERAGE

Coverage (neat) is approximately 1.6m² at 10mm thickness

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DIRECTION 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.

Priming: For the best adhesion to the concrete, use Flex-Con as the prime coat. Refer to the Flex-Con technical data sheet for instructions.

Mixing: All materials should be in the proper temperature range of 16°C to 32°C Single bags of **EUCOFLOOR SL160 M** 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 correct amount of water, 5.5 to 5.8L 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 5.8L OF WATER PER 25KG BAG.** Mix a minimum of 3 minutes. If bucket mixed, the product should be quickly transported to the repair area and placed immediately.

Application: Featheredge to 2.5cm neat. For applications over 25mm in thickness, add 9.1 to 11.3kg of 10mm pea gravel to extend the initial layer (Note: Self-healing and flow properties will decrease with addition of pea gravel). 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. If placing over radiant heat systems, ensure the system is off and cool prior to installation. Place **EUCOFLOOR SL160 M** as described above and allow to fully cure prior to turning the system on.

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

Curing: **EUCOFLOOR SL160 M** does not require curing with standard methods for most applications. Under hot, windy or rapid drying conditions, the use of **Concrete Surface Retarder** is recommended during placement to minimize rapid evaporation and plastic shrinkage.

CLEAN-UP

Clean tools and equipment with water before the material hardens

PRECAUTIONS/LIMITATIONS

- Do not use **EUCOFLOOR SL160 M** as a heavy-duty wearing surface for industrial floors.
- If used as an indoor, light-duty wearing surface, the use of a Euclid Chemical clear epoxy topcoat is recommended for added wear resistance.
- **EUCOFLOOR SL160 M** 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 will fall below 4°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 Safety Data Sheet before use

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