

HORIZONTAL REPAIR

Master Format #: 03 54 16



EUCLID CHEMICAL

EUCOFLOOR SL160

CEMENTITIOUS SELF-LEVELING UNDERLAYMENT

PACKAGING

50 lb (22.7 kg) bag
Code: 407SL150 50

APPROXIMATE YIELD

50 lb (22.7 kg) unit: 0.52 ft³ (0.015 m³) per unit when mixed with 6.5 qt (6.2 L) of potable water.

Extended: 0.65 ft³ (0.018 m³) per unit when mixed with 6.5 qt (6.2 L) of potable water.

MINIMUM/MAXIMUM APPLICATION THICKNESS

Neat: Featheredge to 1 inch (25 mm) per lift

Extended: Up to 2.5 inches (64 mm) per lift

CLEAN UP

Clean tools and equipment with water before the material hardens.

SHELF LIFE

1 year in original, unopened package

SPECIFICATIONS AND COMPLIANCES

- EUCOFLOOR SL160 meets ASTM E 84-13a Surface Burning Characteristics of Building Materials as a class A or I building material.

DESCRIPTION

EUCOFLOOR SL160 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 1" (25 mm) neat. EUCOFLOOR SL160 may be used as an indoor, light-duty (foot traffic only) wearing surface, when protected by a Euclid Chemical epoxy/urethane system.

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- Fluid consistency for ease in application
- 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
- Outstanding self-healing properties

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)

The following coverage rates are approximations based on yield of a 50 lb (22.7 kg) unit mixed at standard consistency.

Application Thickness - inches (mm)	1/16 (1.6)	1/8 (3)	1/4 (6)	3/8 (10)	1/2 (13)	3/4 (19)	1 (25)
Coverage Area per Unit - ft ² (m ²)	99.8 (9.3)	49.9 (4.6)	24.9 (2.3)	16.6 (1.5)	12.4 (1.2)	8.3 (0.8)	6.2 (0.6)

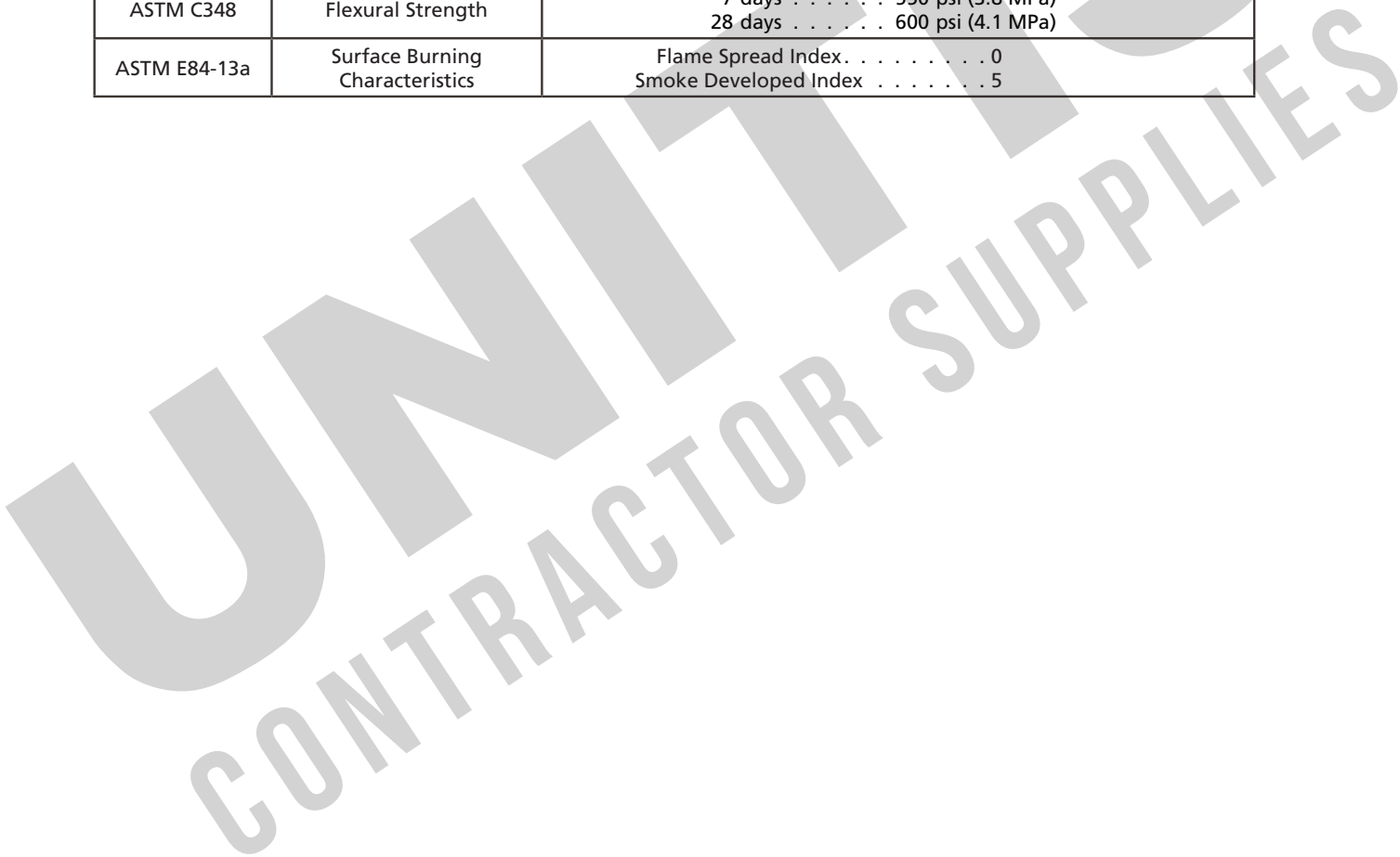
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TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

Test Method	Test Property	Values
ASTM C109 2" (50 mm) cubes	Compressive Strength	4 hours. 900 psi (7 MPa) 24 hours. 2,000 psi (14 MPa) 7 days 3,000 psi (21 MPa) 28 days 3,500 psi (24 MPa)
ASTM C157	Shrinkage	24 hour cure - 0.040%
	Flow Time	Approximately 15 minutes
	Unit Weight	Approximately 122 lb/ft ³ (1954 kg/m ³)
ASTM C191	Set Time	Initial approximately 45 minutes Final approximately 1 hour
ASTM C348	Flexural Strength	7 days 550 psi (3.8 MPa) 28 days 600 psi (4.1 MPa)
ASTM E84-13a	Surface Burning Characteristics	Flame Spread Index 0 Smoke Developed Index 5



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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.

Priming: For the best adhesion to the concrete, use EUCOFLOOR EPOXY PRIMER seeded with sand as the prime coat. Refer to the EUCOFLOOR EPOXY PRIMER technical data sheet for instructions. Alternately, concrete can be primed with a spray or brush coat of TAMMSWELD or EUCOWELD 2.0. Refer to the appropriate technical data sheets for usage instructions for the selected primer.

Mixing: All materials should be in the proper temperature range of 60 to 90 °F (16 to 32 °C). Single bags of EUCOFLOOR SL160 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, 6.0 to 6.5 qt (5.7 to 6.2 L) 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 6.5 QT (6.2 L) OF WATER PER 50 LB (22.7 KG) 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 1" (2.5 cm) neat. For applications over 1" (25 mm) in thickness, add 20 to 25 lb (9.1 to 11.3 kg) of 3/8" (9.5 mm) 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 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 does not require curing with standard methods for most applications. Under hot, windy or rapid drying conditions, the use of Eucobar is recommended during placement to minimize rapid evaporation and plastic shrinkage.

PRECAUTIONS/LIMITATIONS

- Do not use EUCOFLOOR SL160 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 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 40 °F (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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