

HORIZONTAL REPAIR

Master Format #: 03 54 13

FLO-TOP

PUMPABLE, SINGLE COMPONENT, SELF-LEVELING UNDERLAYMENT



EUCLID CHEMICAL

PACKAGING

50 lb (22.7 kg) bag
Code: 089 50

APPROXIMATE YIELD

50 lb (22.7 kg) unit: 0.51 ft³ (0.011 m³)
per unit when mixed with 7 qt (6.6 L) of
potable water.

MINIMUM/MAXIMUM APPLICATION THICKNESS

Featheredge to 1 inch (2.5 cm)

CLEAN UP

Clean tools and equipment with water
before the material hardens.

SHELF LIFE

1 year in original, unopened package

DESCRIPTION

FLO-TOP is a free-flowing, self-leveling compound specially designed for easy application over concrete and wooden floors as an underlayment for the subsequent placement of floor coverings. It may be applied at thicknesses from featheredge to 1" (25 mm). FLO-TOP is a one-part underlayment requiring only the addition of water for mixing.

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- Flowable consistency for self-leveling application
- Pumpable through standard equipment
- Self-leveling for smooth, flat floors
- Exceptional coverage rate for maximum yield and value
- Minimal shrinkage for outstanding resistance to cracking
- High early strength for early turnaround
- Excellent bond strength for a composite floor section

PRIMARY APPLICATIONS

- Interior, sound, concrete sub-flooring
- Unlevel floors
- Repair of old, worn concrete that will receive a decorative topping
- Wood floors

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	2 hours. 1,500 psi (10 MPa) 24 hours. 2,300 psi (16 MPa) 3 days 2,800 psi (19 MPa) 7 days 3,600 psi (25 MPa) 28 days 5,000 psi (34 MPa)
	Unit Weight	115 lb/ft ³ (1842 kg/m ³)
ASTM C1042	Bond Strength	7 days 700 psi (5 MPa) 28 days 1,000 psi (7 MPa)
ASTM C191	Set Time	Initial approximately 45 minutes Final. approximately 70 minutes

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

Application Thickness (inches)	1/16	1/8	1/4	3/8	1/2	3/4	1
Coverage Area per Unit (ft ²)	97.9	48.9	24.4	16.3	12.2	8.1	6.1

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. Preparation should be done by mechanical means to achieve a surface profile equal to CSP 3 - 5 in accordance with ICRI Guideline 310.2. Properly clean profiled area. **IMPORTANT:** For wood floors, secure metal lathe over the floor that has been fully braced and secured so that it is stable, without flexibility. **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. Alternatively, 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 FLO-TOP may be bucket mixed with a drill and "jiffy" mixer. Larger projects are best placed with standard grouting or underlayment equipment. Add the appropriate amount of water for the batch size and then add the dry product. Do not over water, for that will cause bleeding or segregation. Add 6.5 to 7 qts (6.15 to 6.6 L) of water per 50 lb (22.7 kg) bag. Mix a minimum of 3 minutes. If mixed in a pail, the product should be quickly transported to the repair area and placed immediately.

Application: For applications over 1" (25.4 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. Placement options include screeding or the use of pre-placed aggregate grouting techniques. After 24 hours, prime the surface of the initial layer and place additional underlayment to achieve the final smooth surface.

Placement: The product must be placed continuously 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) FLO-TOP does not require curing with standard methods for most applications. Under hot, rapid-drying conditions or if there is much air movement, the use of EUCOBAR, evaporation retardant, is recommended after placement.

PRECAUTIONS/LIMITATIONS

- Designed for interior use only
- FLO-TOP is not a vapor barrier and will allow free passage of vapor.
- Do not use for exterior applications or in areas continuously subjected to moisture or water.
- Do not use FLO-TOP as a wearing surface.
- Do not add admixtures or calcium chloride.
- Do not use at ambient temperatures that will fall below 40 °F (4 °C) within 72 hours.
- Do not allow to freeze for 7 days after placement.
- FLO-TOP must be well cured before application of floor coverings.
- 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
- If placing Flo-Top over a wood floor, it is very important to secure the floor to prevent all movement.
- In all cases, consult the Safety Data Sheet before use.

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