



THE EUCLID CHEMICAL COMPANY

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FLO-TOP 90

ONE PART SELF-LEVELING RESURFACER

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FLO-TOP 90 is a free flowing, self-leveling, compound specially designed for easy application over concrete floors as an underlayment for subsequent placement of floor coverings. It is also suitable for use as a repair and leveling course for foot and rubber tire traffic to be applied at thicknesses from featheredge to 1" (25 mm). FLO-TOP 90 is a one part system requiring only the addition of water for mixing and a primer for bonding.

PRIMARY APPLICATIONS

- Placement over wood, tile or terrazzo
- Smooth concrete surfaces
- Re-level worn floors
- Flooring underlayment
- Leveling course under ceramic tile
- Warehouses & manufacturing facilities

FEATURES / BENEFITS

- Flowable consistency for self-leveling application
- Pumpable through standard equipment
- Self-leveling for smooth, flat floors
- Minimal shrinkage for outstanding resistance to cracking
- High early strength for early turnaround
- Suitable as a wearing surface for foot and rubber tire traffic
- Excellent bond strength for a composite floor section
- Suitable for use in occasionally wet areas
- Choice of several bonding agents
- May be steel troweled for greater durability

PACKAGING / YIELD

FLO-TOP 90 is packaged in 50 lb (22.7 kg) bags. Yield is 0.54 ft³ (0.015 m³) when mixed with 6 quarts (5.7 liter) of water.

COVERAGE/UNIT

THICKNESS	SURFACE AREA	UNITS PER 1,000 ft ² (93 m ²)
1/4" (6 mm)	26 ft ² (2.4 m ²)	39 Units
1/2" (13 mm)	13 ft ² (1.2 m ²)	78 Units

Note: This product requires a primer bonding agent which must be ordered separately. See "Bonding" section for primer selection.

TECHNICAL INFORMATION

Typical Engineering Data

The following information was developed under laboratory conditions.

Compressive Strength ASTM C-109

2" (50 mm) cubes

Age	Strength
2 hours	1,500 psi (10 MPa)
24 hours	2,300 psi (16 MPa)
3 days	2,800 psi (19 MPa)
7 days	3,500 psi (24 MPa)
28 days	4,500 psi (31 MPa)

Bond Strength ASTM C-1042

Age	Strength
7 days	900 psi (6 MPa)
14 days	1,200 psi (8 MPa)

Density 115 lb/ft³ (1842 kg/m³)

Set Times (ASTM C-191) @ 70°F (21°C)

Initial: 45 mins

Final: 70 mins

Appearance

FLO-TOP 90 provides a medium buff appearance when cured and dried.

DIRECTIONS FOR USE

Surface Preparation-New concrete must be a minimum of 3 days old and must be broom textured at the time of placement to secure a good mechanical bond. If the new concrete is not finished with an appropriate texture, follow surface preparation procedures below for old concrete.

Old concrete must be clean and textured. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a scabber, bushhammer, shotblast or scarifier which will give a surface profile similar to coarse sandpaper. The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washing.

Acid etching is acceptable only when mechanical preparation is impractical. It is recommended that only contractors experienced in the acid etching process use this means of surface preparation. The salts of the reaction must be thoroughly pressure washed away. Allow the concrete to completely dry. Note: Even with proper procedures, an acid etched surface will not provide as strong a bond as mechanical preparation procedures.

All concrete must possess an open surface texture with all curing compounds and sealers removed.

Bonding-For use as an underlayment, prime all areas with EUCO WELD or FLEX-CON. Follow mixing and placing instructions on the corresponding technical data sheet. If FLO-TOP 90 will be exposed to wheeled traffic, use EUCO #452 epoxy system for bonding. Follow mixing and placing instructions on the corresponding technical data sheet. Place the topping on the wet or 'tacky' primer before it cures.

Primer must be ordered separately.

Mixing- All materials should be in the proper temperature range of 60°F (16°C) - 90°F (32°C). Small quantities of FLO-TOP 90 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 use water at a rate that will cause bleeding or segregation. Typical water requirement is 6 quarts/50 lb bag (5.7 liter/22.7 kg). Under no circumstances add more than 6.5 quart/50 lb bag (6.2 liter/22.7 kg). Mix a minimum of 3 minutes. If bucket mixed, the product should be quickly transported to the repair area and placed immediately.

For applications over 1" (25 mm) in thickness, add 20-25 lb (9.1-11.3 kg) of 1/8"-3/8" (3-9 mm) aggregate 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 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 if this product is used as an underlayment or for light foot traffic. To increase abrasion and gouge resistance, FLO-TOP 90 may be given a hard, steel troweled finish. If desirable, power trowel with a small, light weight

machine after the product hardens enough to support the equipment.

Curing-If FLO-TOP 90 will be used as the final floor finish, or if the product will be exposed to the air longer than 3 days, moist cure FLO-TOP 90 for a minimum of 3 days. Alternatively, use a high solids curing compound such as SUPER AQUA-CURE VOX or SUPER DIAMOND CLEAR VOX.

Note: Always re-establish floor and slab joints when using this product as an overlay.

CLEAN-UP

Clean tools and equipment with water before the material hardens.

PRECAUTIONS / LIMITATIONS

- Designed for interior use.
- Do not use FLO-TOP 90 where heavy gouging is expected.
- Do not use at ambient temperatures that will fall below 40°F (4°C) within 72 hours.
- Do not allow to freeze within 7 days after placement.
- Shelf life is one year in original, unopened package.

Form Flo-Top 90-12.97

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