Level Top Polish

Polishable Self-Leveling Overlayment

EUCLID CHEMICAL

Description

LEVEL TOP POLISH is an easy-to-use, self-leveling re-surfacing compound, designed for use on either new or worn concrete substrates. LEVEL TOP POLISH provides excellent adhesion, toughness, and long-term durability. LEVEL TOP POLISH can be ground and polished to achieve a high gloss finish. The high-early strength allows polishing within 24 hours of placement. LEVEL TOP POLISH can be extended with decorative aggregate for unlimited finishes.

Primary Applications

- Leveling concrete substrates
- Fast track applications
- Decorative/polished wearing surfaces
- Retail, commercial and residential applications

Features/Benefits

- Self-leveling
- Gray color and can be integrally colored
- Can be dyed
- May be polished in 24 hours
- Acceptable as an underlayment
- Micro-fiber enhanced
- Can be coated in 24 hours
- High early strength for fast turnaround
- Compatible with liquid densifiers
- Pourable and pumpable

Technical Information

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

Compressive Strength ASTM C109
Age
4 hours.....2,000 psi (14 MPa)
24 hours.....4,800 psi (33 MPa)
7 days.....5,700 psi (39 MPa)
28 days.....7,000 psi (48 MPa)

Unit Weight.....approx 134 lb/ft^3 (2,146 kg/m^3)

Flow Time.....approx 20 min
Working Time.....approx 20-30 min
Dry Polish.....24 hours
Coat Time.....12-24 hours

Set Time ASTM C191
Initial.....50 to 80 min
Final.....100 to 180 min

Packaging/Yield

LEVEL TOP POLISH is packaged in 50 lb (22.7 kg) bags that yield approximately 0.46 ft^3 (0.011 m^3) of material. A single bag covers approximately 11 ft^2 (1.02 m^2) at 1/2 in (12.7 mm) thickness, and approximately 14.7 ft^2 (1.37 m^2) at 3/8 in (9.52 mm) thickness.

Shelf Life

6 months in original, unopened package

Specifications/Compliances

- USGBC LEED Version 4, BD&C, ID&C
- ANSI/GBI 01, Green Building Assessment Protocol
- The WELL Building Standard

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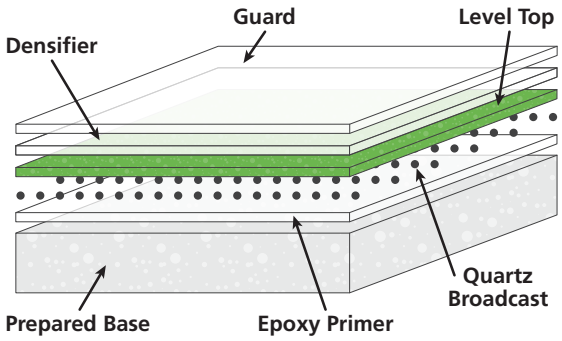
Directions for Use

Surface Preparation: Concrete surfaces must be structurally sound, free of loose or deteriorated concrete, and free of dust, dirt, paint, efflorescence, oil, and 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. For polishing applications, before installing LEVEL TOP POLISH, all concrete sub floors must be primed with HIGH PERFORMANCE EPOXY PRIMER EXPRESS, EUCOFLOOR EPOXY PRIMER, or other approved Euclid Chemical Company epoxy bonding systems. For non-polishing applications, 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.

Apply mixed epoxy binding agent system (see product data sheet for mixing instructions) to the properly prepared substrate at a rate of 75 to 100 ft^2/gal (1.8 to 2.5 m^2/L). Squeegee the epoxy into place, scrub it into the substrate, then back roll to ensure a uniform application. While the epoxy is still wet, broadcast a washed, dried, non-absorptive/reactive (per ASTM C227), 16/30 mesh sand onto the surface until it is completely saturated with sand and appears dry. Application rate for the sand is approximately 1 lb/ft^2 (4.9 kg/m^2). After the sand is applied, the surface should have a uniform appearance with no damp or wet areas visible. If so, apply more sand to those areas until they appear dry. Allow the epoxy to fully cure. Remove all loose, unbonded sand by vacuuming it off prior to topping application. LEVEL TOP POLISH should only be installed when ambient and substrate surface temperatures are between 50 and 90°F (10 and 32°C), with the optimum installation temperature around 70°F (21.1°C).

Mixing: Add one 50 lb (22.7 kg) bag of LEVEL TOP POLISH to 4.5 to 5 quarts (4.25 to 4.73 L) of cool water in a clean mixing vessel. Mix for a minimum three minutes, adjust the water by adding up to 1 pint (0.47 L), if required. A drill and paddle or Helix mixer may also be used. If using an approved Increte integral colorant, add color to water prior to the addition of LEVEL TOP POLISH. A large mixer can be used for a multi-bag batch.



Placement: Pour/pump all mixed material onto the primed surface and spread with gauge rake at the required thickness. All existing joints and any moving cracks must be honored up through the topping.

Minimum placement thickness for polishing applications is 3/8" (9.52 mm). Minimum placement thickness for non-polished topping applications is 1/4" (6.35 mm). Minimum placement thickness for non-polished underlayment applications is 1/8" (3.18 mm). This product can be feathered at the edges to meet adjacent floor elevations in underlayment appllications. For all applications, the maximum non-extended placement thickness is 2" (50.8 mm) neat and 3" (76.2 mm) when extended with aggregate.

If decorative aggregate will be used, add up to 25 lb (11.33 kg) of washed, dried, non absorptive/reactive (per ASTM C227), of your choice. Mix product per directions above then add aggregate until fully dispersed.

Use a smoother as needed to remove any entrapped air. Care should be taken to avoid forcing the separation of aggregate while smoothing LEVEL TOP POLISH.

Curing and Sealing: LEVEL TOP POLISH does not require curing with standard methods for most applications. Avoid excessively windy or dry placement conditions. Do not apply in direct sunlight. Follow ACI 306 Guide to Cold Weather Concrete or ACI 305 Guide to Hot Weather Concreting when applicable. Do not wet cure.

Polishing: Once placed and after the LEVEL TOP POLISH has cured for at least 24 hours, the surface can be dry polished to a high-gloss finish using standard concrete polishing practices. LEVEL TOP POLISH may also be chemically densified with ULTRASIL LI+ or any of The Euclid Chemical Company line of densifiers. The use of ULTRAGUARD or PRO-POLISH GUARD is recommended to protect the finished polished floor.

Clean-Up

Clean tools and equipment with water before the material hardens.

Precautions/Limitations

- When used for a decorative application, a test area is highly recommended to ensure desired results.
- Not for use as a heavy-duty surface for industrial floors.
- Steel wheels and dragging sharp heavy objects can indent or gouge the surface.
- Slight variation of color and marks may show in the surface due to application methods. Multi-bag applications will achieve a more uniform finish.
- Always keep a wet edge.
- Do not add admixtures or calcium chloride.
- Not recommended for exterior use in freeze/thaw environments.
- Do not use if ambient temperatures will fall below 40°F (4°C) within 72 hours after placement.
- Store in a dry place.
- For professional use only.
- In all cases, consult the Safety Data Sheet prior to use.

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