HORIZONTAL REPAIR

Master Format #: 03 01 30.71

LEVEL TOP POLISH

POLISHABLE SELF-LEVELING OVERLAYMENT

EUCLID CHEMICAL

PACKAGING

50 lb (22.7 kg) bag
Code: CLHS P050 355
Code: CLHS P050§ (colors, MTO)

APPROXIMATE YIELD

50 lb (22.7 kg) unit: 0.46 ft³ (0.013 m³) per unit when mixed with 4.5 to 5 quarts (4.25 to 4.73 L) of potable water.

MINIMUM/MAXIMUM APPLICATION THICKNESS

See "Placement" instructions below.

CLEAN UP

Clean tools and equipment with water before the material hardens.

SHELF LIFE

9 months in original, unopened package

SPECIFICATIONS AND COMPLIANCES

- CDPH Standard Method v1.2, 2017
- USGBC LEED Version 4, BD&C, ID&C
- ANSI/GBI 01, Green Building Assessment Protocol
- The WELL Building Standard

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.

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

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

PRIMARY APPLICATIONS

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

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)	1/8 (3)	1/4 (6)	3/8 (10)	1/2 (13)	3/4 (19)	1 (25)	2 (51)
Coverage Area per Unit - ft² (m²)	44.1 (4.10)	22.0 (2.04)	14.7 (1.37)	11.0 (1.02)	7.3 (0.68)	5.5 (0.51)	2.7 (0.25)

DISCLAIMER: Level Top Polishable overlay systems are designed to create a "Polished Concrete" appearance to refresh the look of older concrete floors. The overall appearance of these floors is not intended to be completely uniform or perfectly homogeneous like epoxy coatings. The variations of mixing equipment and in placement application techniques like screeding and smoothing will create variations in the overall appearance of the finished floor after the cutting and polishing procedures remove the top layer of cement paste and expose the actual "look" of the concrete overlay. Other visual variations that become visible after the grinding and polishing procedure can include varying aggregate colors, naturally occurring air voids ("pin-holes"), and/or possible discolorations from various raw materials commonly referred to as "specs", "lumps", or "snowflakes". These slight variations in visual appearance in no way diminish the performance of the floor or its durability when the complete installation procedure including sealers and guards is performed correctly.

TECHNICAL INFORMATION

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

Test Method	Test Property	Values
ASTM C109	Compressive Strength	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	134 lb/ft³ (2146 kg/m³)
ASTM C191	Set Time	Initial . . . . . 50 to 80 minutes Final. . . . . .100 to 180 minutes
	Various Physical Properties	Flow Time . . . . . approximately 20 minutes Working Time . . approximately 20 to 30 minutes Dry Polish Time . . . . . .24 hours Stain or Coat Time . . . . . 12 to 24 hours

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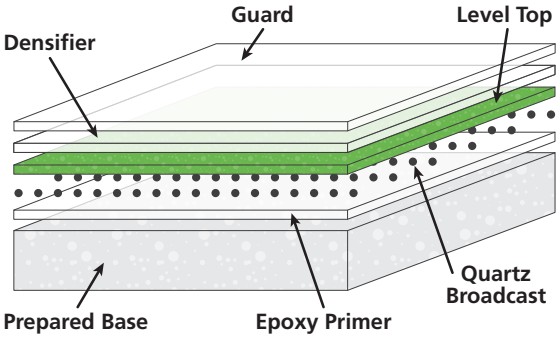
DIRECTIONS FOR USE

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 INCRETE H.P. EPOXY, DURALTEX, or one of the many other approved Euclid Chemical Company epoxy bonding systems. Contact your local Euclid Chemical Rep for the best option for your locale and project. 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. It is not recommended to use drum-type concrete mixers as they do not create the shear needed for proper mixing. 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" (10 mm). Minimum placement thickness for non-polished topping applications is 1/4" (6 mm). Minimum placement thickness for non-polished underlayment applications is 1/8" (3 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" (51 mm) neat and 3" (76 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.

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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