



LEVEL TOP POLISH

POLISHABLE SELF-LEVELING OVERLAYMENT

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

FEATURES

- 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

Typical Engineering Data

The following results were developed under laboratory conditions @ 70 °F (21 °C)

Compressive Strength ASTM C109

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/ft³ (2,146 kg/m³)

Set Time, ASTM C191

Initial.....50 to 80 min
 Final.....100 to 180 min

Flow Time.....approx 20 min

Working Time.....approx 20-30 min

Foot Traffic.....3 to 4 hours

Dry Polish.....24 hours

Coat time.....24 hours

PACKAGING

LEVEL TOP POLISH is packaged in 50 lb (22.7 kg) bags that yield approximately 0.46 ft³ (0.013 m³) of material.

SHELF LIFE

6 Months in original, unopened bag.

COVERAGE

A single bag of LEVEL TOP POLISH should cover approximately 10-12ft² (0.92-1.11 m²) @1/2 in (12.7 mm) thickness, and approximately 14-16 ft² (1.30-1.48 m²) @3/8 in (9.52 mm) thickness.

SURFACE PREPARATION:

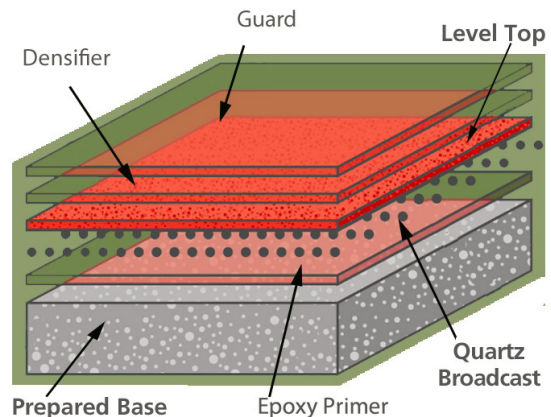
Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and other contaminants. Mechanically abrade the surface to achieve a surface profile equal to CSP 3-5 in accordance with ICRI Guideline 310.2. Properly clean profiled area. For **polishing** applications all concrete sub floors must be primed with HIGH PERFORMANCE EPOXY or other approved Euclid Chemical Company epoxy bonding systems. 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 ft²/gal (1.8 to 2.5 m²/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/ft² (4.9 kg/m²). 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)

When LEVEL TOP POLISH is not being used in a polishing application or is being used as an underlayment, the use of BOND-CRETE or TAMMSWELD as a primer is acceptable. For normal concrete, 1 coat of primer (mixed at a ratio of 1 part primer to 1 part water) should be applied followed by a second coat of undiluted primer. For highly absorbent concrete, multiple coats of primer (mixed at a ratio of 1 part primer to 1 part water) may be necessary. The final coat of primer should be applied undiluted. Excessively absorbent concrete surfaces may dry within 20 minutes, if this happens, apply additional diluted coats of primer to ensure that the absorbent substrate is treated. When the excessively absorbent substrate is treated and the diluted primer does not dry before 20 minutes, apply the final undiluted primer coat and allow the primer to dry before applying the LEVEL TOP POLISH. Apply primer to properly prepared substrate and work into the concrete surface with a soft-bristle push broom or paint roller. Spread evenly to avoid puddles and to thoroughly coat the surface.

APPLICATION PROCESS

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 applications. 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.

Curing: 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 Procedures for Cold Weather Concreting or ACI 305 Procedure for 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 PRO-POLISH DENSIFIERS or any of the EUCLID CHEMICAL COMPANY line of densifiers. The use of PRO-POLISH GUARD or any of the approved EUCLID CHEMICAL COMPANY Guard products is recommended to protect your polished floors. **(See product data sheet for application instructions)**

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 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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