OVERLAYS & MICRO TOPPINGS

Master Format #: 03 53 19

INCRETE LEVEL TOP POLISH

POLISHABLE SELF-LEVELING OVERLAYMENT

EUCLID CHEMICAL

PACKAGING

50 lb (22.7 kg) bags

YIELD

Approximately 0.46 ft^3 (0.013 m^3) of material. Covers approximately 10-12ft^2 (0.92-1.11 m^2) @1/2 in (12.7 mm) thickness, and approximately 14-16 ft^2 (1.30-1.48 m^2) @3/8 in (9.52 mm) thickness.

MINIMUM/MAXIMUM APPLICATION THICKNESS

Min: 3/8" (1 cm)

Max: 2" (5.1 cm)

May be applied thicker with the use of extender aggregates.

APPEARANCE

Gray dry powder. Available in many other colors.

CLEAN UP

Clean tools and equipment with water before the material hardens.

SHELF LIFE

6 months in original, unopened bag

SPECIFICATIONS AND COMPLIANCES

USGBC LEED Version 4, BD&C, ID&C

ANSI/GBI 01, Green Building Assessment Protocol

The WELL Building Standard

BRIEF OVERVIEW

INCRETE LEVEL TOP POLISH is an easy-to-use, self-leveling re-surfacing compound, designed for use on either new or worn concrete substrates. INCRETE LEVEL TOP POLISH provides excellent adhesion, toughness, and long-term durability. INCRETE 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. INCRETE LEVEL TOP POLISH can be extended with decorative aggregate for unlimited finishes.

PRODUCT CHARACTERISTICS

ADVANTAGES

- Self-leveling
- Gray and can be integrally colored
- Can be dyed
- May be polished in 24 hours
- Acceptable as an underlayment
- Micro-fiber enhanced
- For interior and exterior surfaces
- Can be coated in 24 hours
- High early strength for fast turn-around
- Compatable with liquid densifiers

COMMON USES

- Leveling interior and exterior concrete substrates
- Decorative/polished wearing surfaces
- Retail, commercial and residential applications
- Fast track applications
- 3/8" (1 cm) to 2" (5.1 cm)
- 50 °F (10 °C) to 90 °F (32 °C)

COMMON METHODS

- Pourable
- Pumpable

PHYSICAL PROPERTIES

- Mix with 4.5 - 5 quarts of water per 50 lb bag.
- Working Time/Drying Time: 20 minutes
- Initial Set Time: 40 - 70 minutes
- Final Set Time: 100 - 180 minutes

TECHNICAL INFORMATION

TYPICAL ENGINEERING DATA

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

Compressive Strength ASTM C 109 2in (50 mm) cubes

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)
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

Unit Weight..... approx 134 lb/ft³ (2,146 kg/m³)
Set Time, ASTM C 191 Initial.....40 to 70 min
Final.....100 to 180 min
Minimum thickness*.....3/8 in (9.52 mm)
*Foot traffic only
Maximum thickness neat.....2 in (50.8 mm)
Maximum thickness extended.....3 in (76.2 mm)

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 all concrete sub floors must be primed with INCRETE HIGH PERFORMANCE EPOXY or other approved Euclid Chemical epoxy bonding systems, then sanded to refusal. Apply mixed epoxy bonding 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 C 227),16/30 mesh sand onto the surface until it is completed saturated with sand and appears dry. Application rate for the sand is approximately 1lb/ft (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. INCRETE 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 INCRETE LEVEL TOP POLISH is not being used in a polishing application or is being used as an underlayment, the use of Euclid Chemical's 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 absorptive concrete surfaces may dry within 20 minutes, if this happens, apply additional diluted coats of primer to ensure that the absorptive substrate is treated. When the excessively absorptive 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 INCRETE 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 INCRETE 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. We do not recommend the use of 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 INCRETE 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. INCRETE LEVEL TOP POLISH can be applied up to 2 in (50.8. mm) thick. When applying, be sure to keep a wet edge. Use spiked roller, as needed, to remove any entrapped air. Smooth with Magic Trowel if desired. If decorative aggregate will be used, add up to 25 Lb (11.33 Kg) of washed, dried, non absorptive/reactive (per ASTM C 227), of your choice. Mix product per directions above then add aggregate until fully dispersed.

DIRECTIONS FOR USE CONT.

CURING

INCRETE 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 INCRETE 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. INCRETE LEVEL TOP POLISH may also be chemically densified with Euclid Chemical's DIAMOND HARD, ULTRASIL LI+, or any of the Euclid Chemical Company's line of densifiers. The use of ULTRAGUARD or any of the approved Euclid Chemical Company's 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 gauge 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.
- 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.