

ULTRA-POLISH 850

A TWO-COMPONENT, 100% SOLIDS EPOXY GROUT COAT USED TO STRENGTHEN CONCRETE PRIOR TO THE GRIND AND POLISH PROCESS

ULTRA-POLISH 850 is a two-component, 100% solids epoxy seal coat designed to be used as a grout coat in order to improve the performance of concrete in the grind and polish process.

PACKAGING

3 gallon kit: Two 1 gallon (3.78 liters) cans of Side-A and one 1 gallon (3.78) can of Side-B.

Mixing Ratio by Volume:

(2) Part-A: (1) Part-B

Accelerator: 1 pint per 3G kit

SURFACE PREPARATION

The concrete substrate must be clean, sound and dry. New concrete should cure for at least 30 days. Ultra-Polish 850 will not fill voids or bridge large cracks. All voids and cracks must be patched using Umaco Universal 1023 then allowed to cure. The minimum pull off strength of the substrate is 200 psi. Remove all dirt, dust, spalling or loose concrete, oil, grease, wax, mildew, efflorescence, laitance, curing compounds, form release agents, paint or any other foreign material which might effect the bond. **SEE WARNING REGARDING PAINT REMOVAL.** Umaco Ultra-Clean may be used to remove oil or grease stains from concrete surfaces. The concrete must have a surface profile of CSP 3-5. Suitable preparation methods include dustless grinding, shot-blasting, scarification and etching using Umaco Ultra-Etch.

Concrete Moisture

Perform testing to verify that the vapor pressure is below 3.0 pounds per 1000 square feet per 24 hours.

MIXING 3G

Umaco Ultra-Shield 200 is sold as kit, (2) Part-A Resin: (1) Part-B Hardener and an accelerator (1 pint per 3G kit). Pour Part-B into Part-A then mix using a paddle attached to a low speed drill

(400-600 RPM) for approximately 90 seconds until one even color develops. Then add 1 pint of the accelerator (per each 3G kit) and remix. This product has a very short pot life so only mix only enough material that can be applied within 5-10 minutes at 70° F.

APPLICATION

Apply Ultra-Polish 850 to the concrete surface by using a flat blade squeegee, tight to the floor leaving no excess on the surface. After the material is spread, back roll with a roller to ensure that no excess is left on the surface. After it is cured, the grind and polish process can begin.

COVERAGE

Dependent on the porosity of the concrete.

CLEANUP

Clean up mixing station, tools and equipment as required using denatured alcohol. Observe all legal, health and safety precautions when handling or storing solvents and materials particularly in confined spaces.

DISPOSAL

Dispose of empty packaging and other waste in accordance with federal, state, provinces and local regulations

STORAGE

Umaco Ultra-Polish 850 has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-90°F (15-32°C).

LIMITATIONS

- New concrete must cure 30 days
- The concrete surface must be dry prior to application
- This product is intended for interior use only
- Apply test patch to determine the suitability before using

- Allow to completely dry before polishing
- Product may slightly darken substrate
- Apply when ambient and surface temperatures are between 50°F-90°F
- Substrate temperature must be 5° F above dew point

TECHNICAL DATA

Solids by Weight: 100%

VOC's: Less than 2 g/l

Color: Clear (Gardner color 2)

Coverage per Gallon (16-18 mils):
90-100 ft²/gal

Finish Characteristics:

Gloss (>80 at 60 degrees at glossmeter)

Abrasion Resistance:

Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 18 mg loss

Flexural Strength (ASTM D790):
8,300 psi

Compressive Strength (ASTM D695):
10,500 psi

Tensile Strength (ASTM D638):
6,300 psi

Hardness: Shore D = 80

Adhesion: 350 psi at elcometer (concrete failure, no delamination)

Viscosity: Mixed = 500-1000 cps

Ultimate Elongation: 3.1%

Gardner Variable Impactor:

50 inch pounds direct - passed

Application Temperature: 50-90°F

Pot Life (1-1/2 Gallon): 5-10 minutes

Tack Free (Dry to Touch): 3 - 4 hours

Grind Capability: 3-6 hours

WARNING

Harmful if inhaled. Harmful if swallowed. May cause eye irritation. May cause allergic skin reaction. Before using, read the Safety Data Sheet and follow all precautions to prevent bodily harm.



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WARNING! If you scrape, sand or remove old paint, you may release lead dust or fumes. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.**

Before you start, find out how to protect yourself and your family by contacting the USEPA National Lead Information Hotline at 1-800-424-LEAD or log onto www.epa.gov/lead. Wear a properly fitted respirator and prevent skin contact to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

For technical assistance call 978-453-8881.

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LIMITED WARRANTY

The manufacturer guarantees its products to be free of defects and the extent of its liability is limited to the purchase price of the materials only, if proved to be defective. Improper mixing, incorrect application or other factors beyond the control of the manufacturer or its dealers may produce unsatisfactory results and cannot be held to be the manufacturers or its dealers responsibility. There are no other guarantees either expressed or implied. (2021)

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