

# ULTRA-POLISH 825

A ONE-COMPONENT, WATER-BASED, SURFACE CONDITIONER AND STAIN GUARD USED IN THE CONCRETE GRIND & POLISH PROCESS

**ULTRA-POLISH 825** is a one-component, water-based (ultra-small particle size), self-crosslinking, hydrophobic organic polymer and silane/siloxane designed specifically for use in the grind and polish process of concrete. Ultra-Polish 825 acts as a surface conditioner and stain guard which is applied prior to the final polishing step. Ultra-Polish 825 increases long term performance, gloss and stain resistance.

## **ADVANTAGES**

- Increases durability, stain resistance and abrasion resistance
- Improves weathering, densifies and reduces efflorescence
- Protects and fortifies concrete as it seals against moisture damage
- Application will reduce dusting and increase concrete life
- Reduces water absorption into the substrate

## **PACKAGING**

1 gallon bottle (3.78 liters)

5G pail (18.93 liters)

## **SURFACE PREPARATION**

The concrete substrate must be clean, sound and dry. New concrete should cure for at least 30 days. Ultra-Polish 825 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.**

## **Concrete Moisture**

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

## **GRIND AND POLISHING PROCESS**

Ultra-Polish 825 is intended to be used prior to the final polishing step when diamond grinding and polishing concrete substrates.

## **Example of a Polishing Sequence:**

- 80 grit grind
- Ultra-Polish 800 (densifier)
- 150 grit grind
- 300 grit grind
- Ultra-Polish 825 (conditioner)
- 1500 grit grind.

The overall process is dependent on equipment used, the equipment RPM and weight as well as the desired gloss after the final polishing step.

For increased shine, even finer grit sizes can be used. Always apply a test area to determine the gloss and finish characteristics prior to commencing the entire job.

## **TEST AREA**

Concrete substrates vary from geographical regions throughout the country and the actual condition of the concrete can provide varying results. Results can also vary from floor machine weights, RPM speed and the sequence of polishing stages and diamond grit sizes. A test area of 4'x4' should be done on each type of concrete to determine suitability before undertaking the entire project.

## **APPLICATION**

Ultra-Polish 825 can be applied using a typical garden sprayer to wet the surface without any puddles followed by a lint free finish mop to assure a thin and even coat. When using a lint free mop, make sure that the finish mop is used prior to the coating tacking off or becoming partially dry. Do not allow overspray to contact equipment or other surfaces. Typical application coverage ranges from 800 to 1200 square feet per gallon.

When applied correctly, no excess material should remain on the surface and the surface will look damp without free liquids. After material is applied, allow the material to completely dry before completing the final polishing step. Keep floor completely dry for at least 24 hours after the final polishing step is performed. Product is intended for interior application on concrete with a functional vapor barrier.

## **PRECAUTIONS**

Since Ultra-Polish 825 does not totally seal pores, water can still evaporate from the underlying surface. However, if capillary water is travelling toward the treated face, some of it will be stopped at the depth to which the Ultra-Polish 825 has penetrated. At this point it will evaporate, passing through the treated area as water vapor. This normally will present no problem. However, if the capillary water source contains soluble salts, they will be deposited at this point within the substrate where this water evaporates. In essence, this reduces visible efflorescence but there is this danger: If capillary water deposits excessive amounts of soluble salts, their crystalline growth can develop sufficient pressure resulting in spalling. Spalling may also result from substantial pressures of water freezing behind the face of the surface before evaporation can occur. These conditions both develop from outside sources of water. Concerning positive side water absorption, applications of this material will reduce positive side absorption and improve the capability of the substrate to resist spalling. Although the material will strengthen the substrate, outside sources of water may cause problems if the hydrostatic pressure is sufficiently great.



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### **CURE SCHEDULE**

Allow Ultra-Polish 825 to completely dry to obtain the maximum benefits of the application. The final polishing stage can be performed usually within 1-3 hours under normal conditions.

### **COVERAGE**

Approximately 800-1200 ft<sup>2</sup>.per gallon

### **CLEANUP**

Clean up mixing station, tools and equipment using any suitable mild detergent with a neutral pH to slightly alkaline pH and water.

### **DISPOSAL**

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

### **STORAGE**

Umaco Ultra-Polish 825 has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 50-80°F. Keep from freezing.

### **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
- Stain resistance and water repellency may not fully develop for 2-4 days
- Apply when ambient and surface temperatures are between 55°F-90°F
- Substrate temperature must be 5° F above dew point

### **TECHNICAL DATA**

**VOC's:** 50 grams per liter

**Color:** Opaque milky white

**Coverage per Gallon:** 800-1200 ft<sup>2</sup>/gal

**Finish Characteristics:**

This product may slightly darken the surface. The overall finish characteristics are determined by the polishing diamond grit size and concrete composition

**Abrasion Resistance:**

The application of this product will increase the abrasion resistance of most substrates. Results will vary according to substrate type.

**Viscosity:** less than 25 cps

**Cure Schedule:**

Allow Ultra-Polish 825 to completely dry to obtain the maximum benefits of the application. The final polishing stage can be performed usually within 1-3 hours under normal conditions.

### **WARNING**

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.

**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](http://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.**

[www.umaco.com](http://www.umaco.com)

### **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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