

# ULTRA-SHIELD 200

A TWO-COMPONENT, 100% SOLIDS, SOLVENT-FREE, CLEAR, EPOXY TOPCOAT WHICH PROVIDES A HIGH-GLOSS FINISH & SUPERIOR ADHESION

**ULTRA-SHIELD 200** is a two-component, clear, epoxy topcoat which provides a tough, high-gloss finish that combines chemical resistance with superior adhesion when applied to properly prepared concrete. It is 100% solids, non-shrink, modified for better UV resistance and low odor. Umaco Ultra-Shield 200 may also be used as a broadcast binder for colored flake, colored quartz and aggregates.

## **TYPICAL USES**

- Warehouses
- Kitchens
- Garages
- Laboratories
- Restrooms
- Kennels

## **ADVANTAGES**

- Clear, high-gloss
- UV resistant
- Durable & long lasting
- Excellent impact resistance
- 100% solids formula
- Low odor
- Easy to maintain
- Chemical resistant
- Resistant to algae, fungi, mildew and mold
- Broadcast binder for colored flake and colored quartz systems
- May be blended with metallic pigments

## **PACKAGING**

**3 gallon kit:** Two 1 gallon (3.78 liters) bottles of Side-A and one 1 gallon (3.78) bottle of Side-B.

**15 gallon kit:** Two 5 gallon (18.9 liter) pails of Side-A and one 5 gallon (18.9 liter) pail of Side-B.

## **Mixing Ratio by Volume:**

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

## **SURFACE PREPARATION**

The concrete substrate must be clean, sound and dry. New concrete should cure for at least 28 days with a minimum compressive strength of 3,500 psi and a minimum pull-off strength of 200 psi. Concrete surfaces must be mechanically profiled to CSP 3-5. Suitable preparation methods include dustless grinding, shot-blasting and scarification. Ultra-Shield 200 will not fill voids or bridge large cracks. All voids and cracks must be patched using Umaco Universal 1023 then allowed to cure. 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.

## **Priming**

Umaco Ultra-Prime 100 should be applied over porous concrete prior to application in order to avoid outgassing and the development of surface defects.

## **Concrete Moisture**

Perform testing to verify that the vapor pressure is below 3.0 pounds per 1000 square feet per 24 hours. If the vapor pressure exceeds this limit, Umaco Ultra-Prime MVB must be used (in place of Umaco Ultra Prime-100) prior to application. Refer to Umaco Ultra-Prime MVB data sheet for full instructions and limitations.

## **MIXING**

Umaco Ultra-Shield 200 is sold as kit, (2) Side-A Resin: (1) Side-B Hardener. Pour Side-B into Side-A then mix using a paddle attached to a low speed drill (400-600 RPM) for approximately 90 seconds until one even color develops. Mix only enough material that can be applied within 15-20 minutes at 70°F.

## **Ultra-Shield 200 Pigment Pack**

Umaco Ultra-Shield 200 may be integrally colored by adding (1) premeasured pigment pack to each 3G kit of Ultra-Shield 200. Refer to instructions on back page.

## **Optional Non-Slip Additive**

Where additional slip resistance is required, blend 3.5 ounces of Umaco Sure-Grip per each gallon used for the topcoat.

## **APPLICATION**

Umaco Ultra-Shield 200 can be applied using a 1/4" or 3/8" nap roller, brush, notched-trowel or serrated squeegee and back rolled. This product is best suited for application in temperatures between 55°F to 90°F (50% RH). Maintain recommended temperature and relative humidity during application and curing process. If concrete conditions or over aggressive mixing causes air entrapment, an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating.

## **COVERAGE**

Approximate coverage is 200 ft<sup>2</sup> per gallon at 7-10 mils.

## **RECOATING OR TOP-COATING**

Before recoating or top-coating, allow the first coat to dry for at least 12-18 hours (at 70°F, 50% RH). Make sure that the first coat has tacked off by pressing on the material with your thumb. If no impression is created, than the surface is ready for recoating or top-coating. Also, check to verify that no epoxy blushes were developed. If blush is present, it must be lightly sanded prior to recoating or top-coating. If more than 18 hours pass before recoating or top-coating, the first coat must be lightly sanded using 60 grit sand paper prior to recoating or top-coating.



Phone: 978-453-8881  
Toll Free: 800-442-5535  
Fax: 978-453-2416  
www.umaco.com

### **Polyaspartic & Urethane Topcoats**

Ultra-Shield 200 should top-coated using Umaco Ultra-Guard 300 (polyaspartic) or Umaco Ultra-Glaze 400 (urethane) when additional chemical, abrasion and UV resistance is required.

### **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-Shield 200 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**

- Do not apply over wet or damp substrates
- Umaco Ultra-Prime MVB must be used prior to application if moisture emission exceeds 3.0 pounds per 1,000 square feet per 24 hours
- Apply when ambient and surface temperatures are between 55°F-90°F (50% RH)
- Substrate temperature must be 5°F above dew point
- New concrete must cure 28 days
- Apply a suitable primer before using this product in order to avoid outgassing and the development of surface defects.
- Restrict the use of floor to light traffic and non-harsh chemicals until the coating has fully cured

### **MAINTENANCE**

For maximum life expectancy, routinely sweep and wash floors with appropriate cleaners and detergents such as Umaco Ultra-Clean. All chemicals or abrasive grit should be removed as soon as possible.

### **TECHNICAL DATA**

**Solids by Weight:** 100%  
**Solids by Volume:** 100%  
**VOC's:** 0 g/l  
**Color:** Clear  
**Coverage per Gallon (7-10 mils):** 200 ft<sup>2</sup>/gal  
**Finish Characteristics:** Gloss  
**Flexural Strength (ASTM D-790):** 4000 psi  
**Compressive Strength (ASTM D-695):** 17,000 psi  
**Bond Strength (ASTM D-4541):** >400 psi  
**Impact Strength:** MIL D-3134  
No Chipping, Cracking or Delaminating  
**Tensile Strength (ASTM D-638):** 5,000 psi  
**Hardness (ASTM D-2240):** Shore D = 70-80  
**Viscosity:** Mixed = 450 cps  
**Abrasion Resistance (ASTM D-4060):** Taber Abrader CS-17 calibrase wheel with 1000 gram total load and 1000 cycles = 0.15 grams  
**Water Absorption, max (ASTM D-570):** 0.2%  
**Flammability (ASTM D-635):** Self-Extinguishing  
**Antimicrobial Resistance (ASTM G-21):** Passes  
**Application Temperature:** 55°F to 90°F (50% RH)  
**Pot Life (70°F, 50% RH):** : 15-20 minutes  
**Tack Free (70°F, 50% RH):** 5 hours  
**Recoat or Topcoat (70°F, 50% RH):** 12-18 hours  
**Light Foot Traffic (70°F, 50%RH):** 12-18 hours  
**Full Cure (70°F, 50% RH):** 72 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.

**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. (2026)*

**Umaco, Inc.**  
**60 Rear Newhall Street**  
**Lowell, MA 01852**



**Toll Free: 800-442-5535**  
**Phone: 978-453-8881**  
**Fax: 978-453-2416**

# ULTRA-SHIELD 200 COLOR PIGMENT PACKS

*Samples below are just a representation of the actual color. For exact color, request a draw down sample.*



White



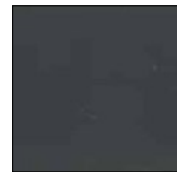
Light Gray



Medium Gray



Dark Gray



Charcoal



Black



Light Tan



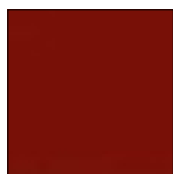
Tan



Sand Beige



Brown Stone



Tile Red



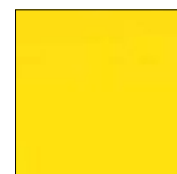
Fast Red



Rich Blue



Leaf Green



Safety Yellow

## ULTRA-SHIELD 200 PIGMENT PACKS

may be used to integrally color Umaco Ultra-Shield 200. Each pigment pack is pre-measured so all you need to do is simply blend one pigment pack with each 3G kit of Umaco Ultra-Shield 200 as per the instructions below.

### DOSAGE

One pigment pack per each 3G kit of Umaco Ultra-Shield 200.

### MIXING

Pour two gallons of Side-A (resin) into a clean/dry 5G mixing bucket. Add one premeasured pigment pack directly into the two gallons of Side-A. Be sure to scrape the sides and bottom of the pigment pack making sure all the pigment is removed. Then using a paddle attached to a low speed drill (400-600 RPM) mix for two minutes until one even color develops. Start slowly making sure to keep all the pigment in

the bucket then increase speed to ensure full dispersion. Frequently scrape the sides and bottom of the container with a paint stick or margin trowel to ensure all pigment is incorporated. After the pigment is fully dispersed, add one gallon of Side-B (hardener) and mix again using a paddle attached to a low speed drill (400-600 RPM) for approximately two minutes until one even color develops.

### APPLICATION

Once properly mixed, apply as indicated on the Ultra-Shield 200 technical data sheet making sure to follow all the instructions and precautions listed.

### 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.

### DISPOSAL

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

### CAUTION

Harmful if inhaled. Harmful if swallowed. May cause eye irritation. May cause allergic skin reaction. Avoid inhaling fumes. Wash hands and skin thoroughly after handling. For specific handling precautions and first aid procedures refer to the SDS.

24 Hour Emergency Medical/Spill Information (Chemtrec): 800-424-9300

**KEEP OUT OF THE REACH OF CHILDREN.**

For technical assistance call  
978-453-8881

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