

ULTRA-PRIME 150

A TWO-COMPONENT, COLORED, HIGH SOLIDS, EPOXY PRIMER DESIGNED TO BE APPLIED PRIOR TO THE APPLICATION OF HIGH SOLIDS TOPCOATS

ULTRA-PRIME 150 is a colored, two-component, 93% solids, epoxy primer designed to be applied over concrete surfaces prior to the application of a high solids or 100% solids topcoat.

ADVANTAGES

- Recommended for priming concrete, surfaces prior to applying epoxy or urethane topcoats
- Reduces pinholes, fish-eyes, craters & outgassing of topcoats
- Tack free time of 6 to 9 hours
- Excellent adhesion & penetration
- Chemical & abrasion resistant
- Available in a variety of colors

PACKAGING

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

SURFACE PREPARATION

The concrete substrate must be clean, sound and dry. New concrete should cure for at least 30 days. Ultra-Prime 150 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. If the vapor pressure exceeds this limit, Umaco Ultra-Prime MVB must be used (in place of Umaco Ultra Prime-150) prior to application. Refer to Umaco Ultra-Prime MVB data sheet for full instructions and limitations.

MIXING

Umaco Ultra-Prime 150 is sold as kit, (3) Part-A Resin: (1) Part-B Hardener. 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. Mix only enough material that can be applied within 30 minutes at 70° F.

APPLICATION

Umaco Ultra-Prime 150 can be applied using a 1/4" nap roller, brush, notched-trowel or serrated squeegee and back rolled. This product is best suited for application in temperatures between 60°F to 90°F with relative humidity below 85%. 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. Thinner applications will not level as well as higher build applications.

TOPCOATING

Before topcoating, allow the first coat to dry for at least 10-14 hours (at 70° F). 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

topcoating. Also, check to verify that no epoxy blushes were developed. If blush is present, it must be removed prior to topcoating by using a standard detergent cleaner such as Umaco Ultra-Clean. If more than 24 hours pass before topcoating, the first coat must be lightly sanded using 60 grit sand paper prior to topcoating.

COVERAGE

Approximate coverage is 133-267 ft² per gallon at 6-12 mils.

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

Ultra-Prime 150 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 if moisture emission in the concrete exceeds 3.0 pounds per 1,000 square feet per 24 hours
- If moisture emission in the concrete exceeds 3.0 pounds per 1,000 square feet per 24 hours, Umaco Ultra-Prime MVB must be used,
- Apply when temperatures are between 60-90°F with relatively humidity below 85%
- Substrate temperature must be 5° F above dew point
- New concrete must cure 30 days



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TECHNICAL DATA

Solids by Weight: 93%

Solids by Volume: 85%

VOC's: Less than 95 g/l (mixed)

Standard Colors:

Light Gray, Medium Gray, Dark Gray,
Tile Red and Beige

Coverage per Gallon (approximate):

133-267 ft²/gal @ 6-12 mils

Finish Characteristics:

Gloss (typical 60 at 60 degrees)

Abrasion Resistance:

Taber abraser CS-17 calibrase
wheel with 1000 gram total load and
500 cycles = 45 mg loss

Flexural Strength (ASTM D790):

8,200 psi

Compressive Strength (ASTM D695):

8,300 psi

Tensile Strength (ASTM D638):

6,800 psi

Hardness: Shore D = 80

Adhesion: 430 psi at elcometer
(concrete failure, no delamination)

Viscosity: Mixed 500-800 cps (typical)

Ultimate Elongation: 2.5%

Gardner Variable Impactor:

50 inch pounds direct - passed

Application Temperature: 60-90°F
with relative humidity below 85%

Pot Life (1-1/2 Gallon): 35-55 minutes

Tack Free (Dry to Touch): 6-9 hours

Recoat or Topcoat: 10-14 hours

Light Foot Traffic: 12-16 hours

Full Cure (Heavy Traffic): 2-7 days

CHEMICAL RESISTANCE

Butanol: 8 hour term splash spill

Xylene: 8 hour term splash spill

1,1,1, Trichloroethane:

2 hour term splash spill

MEK: not recommended

Methanol: not recommended

Ethyl Alcohol: 8 hour term splash spill

Skydrol: 2 hour term splash spill

10% Sodium Hydroxide:

long term immersion

50% Sodium Hydroxide:

72 hour immersion

10% Sulfuric Acid:

8 hour term splash spill

70% Sulfuric Acid: not recommended

10% HC1 (aq): 8 hour term splash spill

5% Acetic Acid: 2 hour term splash spill

WARNING

Contains chemicals that may cause serious physical injury. 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. 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

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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