

ULTRA-STONE 925

A THREE-COMPONENT, 100% SOLIDS, TROWELABLE, EPOXY MORTAR WHICH PROVIDES A DURABLE & ABRASION RESISTANT SURFACE

ULTRA-STONE 925 is a three-component, epoxy polymer mortar designed to be trowel applied at a typical thickness of 3/16" - 1/4". Ultra-Stone 925 cures to a very tough, durable, dense, abrasion & impact resistant surface.

TYPICAL USES

- Shallow, partial & full depth patching
- Resurfaces old, worn & pitted concrete from 3/16" up to 1/4"
- Pitches concrete areas for discharging to drains

ADVANTAGES

- Fast cure
- Superior abrasion & impact resistance
- Non-shrink
- Very dense, less than 2% voids
- Excellent strength properties
- High vibration resistance
- Easy to hand & power trowel

MIXING RATIO

(2) quarts Ultra-Stone 925 Side-A
(1) quart Ultra-Stone 925 Side-B
(28) pounds Side-C (aggregate)

Using the mixing ratio above will cover approximately 16 ft² at 1/4".

SURFACE PREPARATION

The concrete substrate must be clean, sound and dry. New concrete should cure for at least 30 days. Ultra-Stone 925 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.

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

Pour Side-A into a clean and dry 5G pail. Then pour Side-B into Side-A and mix using a paddle attached to a low speed drill (400-600 RPM) for approximately 90 seconds until one even color develops. Slowly add the aggregate and mix until uniformly blended, approximately 3-4 minutes.

APPLICATION

Place the mixed material onto the surface, spread evenly with a box screed or a vibrating screed. Finish smooth with hand or power troweling methods at a compacted thickness of 3/16" to 1/4".

TOP-COATING

Before top-coating, allow Ultra-Stone 925 to dry for at least 6-9 hours (at 70°F) making sure that the material has tacked off by pressing on the material with your thumb. If no impression is created, than the surface is ready for top-coating. If more than 24 hours pass before top-coating, the Ultra-Stone 925 may need to be lightly sanded using 60 grit sand paper.

Topcoat Options

Ultra-Stone 925 may be top-coated using Umaco Ultra-Shield (epoxy), Umaco Ultra-Guard 300 (polyaspartic) or Umaco Ultra-Glaze 400 (urethane) when additional chemical, abrasion and UV resistance is required. Contact a Umaco representative to discuss which topcoat is right for your project.

LIMITATIONS

- Do not apply on wet or damp substrate
- 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 50°F-90°F
- 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
- Aggregate must be dry when used
- Do not thin
- Restrict the use of floor to light traffic and non-harsh chemicals until the coating has fully cured
- For industrial use only

CLEANUP

In case of spills, wear suitable protective equipment, contain spill and collect with absorbent material, place in a suitable container. Dispose according to applicable local, state and federal regulations.

STORAGE

Umaco Ultra-Stone TD 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).



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

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 (7 DAY FULL CURE)

Compressive Strength (ASTM C759):

11,500 psi

Hardness (ASTM D2240):

Neat epoxy, Shore D = 80

Adhesion to Concrete (Tensile Pull),

(ACI 503 R): 410 psi, 100% failure

Abrasion Resistance (Taber),

(ASTM D 4060)

Wheel 17, 1000 cycles, 1000 g load = loss 0.051 g

Flexural Strength (ASTM D790):

9,200 psi

Tensile Strength (ASTM D638):

8,800 psi

Application Temperature: 50-90°F

WARNING

Component "A" Irritant

Contains epoxy resins. Prolonged contact with skin may cause irritation. Avoid contact with eyes.

Component "B" Corrosive

Contains aliphatic/cycloaliphatic amines. Contact with skin may cause severe burns. Avoid eye contact. Product is a strong sensitizer.

Component "C" Contains silica

Avoid breathing product

Use of safety goggles, chemical-resistant gloves, adequate ventilation and NIOSH/OSHA approved respirator is recommended. Read Safety Data Sheet (SDS) before using this product which may be obtained from your retailer or by calling 978-453-8881.

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

KEEP OUT OF THE REACH OF CHILDREN!

FIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes. For respiratory problems, remove person to fresh air. Contact a physician immediately. Wash clothing before re-use.

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. (2022)

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



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