

ULTRA-FLOW 950

A THREE-COMPONENT, SELF-LEVELING EPOXY SYSTEM WHICH PROVIDES A DURABLE & ABRASION RESISTANT SURFACE

ULTRA-FLOW 950 is a three-component, self-leveling system which provides an economical way to resurface, spalled and pitted concrete. Ultra-Flow 950 cures to a very tough, durable, dense and abrasion resistant surface.

TYPICAL USES

- Wide void cracks & structure cracks
- Spalled & deteriorated surfaces
- Deep patching
- Releveling concrete surfaces from 1/8" up to any thickness in single lift

ADVANTAGES

- Self-leveling epoxy system
- Restores worn, pitted or deteriorated concrete
- Superior abrasion resistance
- Excellent impact resistance

PACKAGING (KIT)

- (2) 1G bottles of Side-A (resin)
- (1) 1G bottle of Side-B (hardener)
- (1) 30 pound bag Side-C (aggregate)

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. Control joints should be recut and filled using a Umaco approved product. 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

Ultra-Flow 950 has a mix ratio of 2G Side-A: 1G Side-B: 30 pounds Side-C (aggregate). Kits are pre-measured and should be mixed as supplied. Pour Side-B into a clean/dry mixing container then pour in 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. While still mixing, gradually add in Side-C (aggregate) and mix until a lump free consistency is achieved. The mixed material is now ready for immediate use.

Ultra-Flow 950 Pigment Pack

Umaco Ultra-Flow 950 may be integrally colored by adding (1) premeasured pigment pack to each kit of Ultra-Flow 950. Refer to instructions on back page.

APPLICATION

The mixed material can be applied by trowel, serrated squeegee or gauge rake.

COVERAGE

Product coverage is dependent upon the existing substrate surface profile and the thickness of the designed system. Approximate coverage when applied at 1/8" using a gauge rake is 90 ft² per kit.

RECOATING OR TOP-COATING

Before recoating or top-coating, allow the first coat to dry for at least 12-18 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, then 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.

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
- Restrict the use of floor to light traffic and non-harsh chemicals until the coating has fully cured.

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.



Phone: 978-453-8881
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www.umaco.com

STORAGE

Umaco Ultra-Flow 950 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).

TECHNICAL DATA

Solids by Weight:

100% (liquids mixed without aggregate)

Solids by Volume:

100% (liquids mixed without aggregate)

VOC's: 0 g/L

Coverage per Kit:

90 ft² per kit at 1/8"

Abrasion Resistance (ASTM D-4060):

Taber Abrader C-17, 1,000 gram load,
1,000 cycles = 0.06 gr

Flexural Strength, min. (ASTM C-580):

3,000 psi

Compressive Strength (ASTM D-695):

10,000 psi

Tensile Strength, min. (ASTM D-638):

5,000 psi

Hardness Resin (ASTM D-2240):

Shore D = 70-80

Hardness Aggregate:

MOH's Mineral Scale = 6.5-7.0

Bond Strength, min. (ASTM D-4541):

>400 psi, contact failure

Impact Strength (MIL D-3134): Passing

No chipping, cracking or delaminating

Water Absorption, max. (ASTM D-570):

0.2%

Flammability (ASTM D-635):

Self Extinguishing

Antimicrobial Resistance (ASTM G-21):

Passes

Application Temperature: 55°F -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. Use safety goggles and chemical resistant gloves. NIOSH/ OSHA approved respirator and adequate ventilation is recommended when in confined air space. 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. (2026)

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ULTRA-FLOW 950 COLOR PIGMENT PACKS

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



White



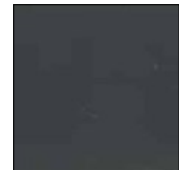
Light Gray



Medium Gray



Dark Gray



Charcoal



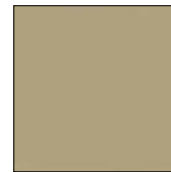
Black



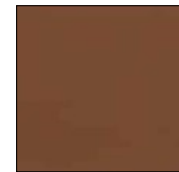
Light Tan



Tan



Sand Beige



Brown Stone



Tile Red



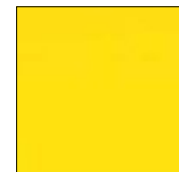
Fast Red



Rich Blue



Leaf Green



Safety Yellow

ULTRA-FLOW 950 PIGMENT PACKS may be used to integrally color Umaco Ultra-Flow 950. Each pigment pack is pre-measured so all you need to do is simply blend one pigment pack with each kit of Umaco Ultra-Flow 950 as per the instructions below.

DOSAGE

One pigment pack per each kit of Umaco Ultra-Flow 950.

MIXING

Pour two gallons of Side-A (resin) into a clean/dry mixing container. 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. 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 one minute until one even color develops. While still mixing, gradually add in Side-C (aggregate) and mix until a lump free consistency and uniform color is achieved.

APPLICATION

Once properly mixed, apply as indicated on the Ultra-Flow 950 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 and 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.

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