

# PRIME•BOND•SEAL

A SINGLE COMPONENT PRIMER, BOND-COAT & SEALER USED AS AN INTEGRAL PART OF GRANITELITE TEXTURED OVERLAY SYSTEM

**GRANITELITE™ PRIME•BOND•SEAL** is an all-in-one, single-component primer, bond-coat (horizontal surfaces) and topcoat sealer designed to be used as an integral part of the GraniteLite™ Textured Overlay System. For vertical surfaces, use GraniteLite™ Vertical•Bond.

## USES & ADVANTAGES

- Primer for the GraniteLite™ Textured Overlay System
- Bond-Coat for broadcasted GraniteLite™ Color Granules as part of the GraniteLite™ Textured Overlay System
- Exterior sealer for the GraniteLite™ Textured Overlay System

## SURFACE PREPARATION

Concrete surfaces must be sound, clean, dry and untreated with previous coatings. Remove all dirt, dust, spalling or loose concrete, oil, grease, wax, mildew, efflorescence, laitance, curing compounds, form release agents, rust, paint or any other foreign material which might effect the bond. **SEE WARNING ON BACK PAGE REGARDING PAINT REMOVAL.** Umaco Ultra-Clean may be used to remove oil or grease stains from concrete surfaces and may also be used as an all purpose cleaner for surface preparation. Using a scrub brush, work the Umaco Ultra-Clean into the concrete and let stand for 5 minutes. Then rinse completely with water and allow to dry. Repeat if necessary. Read Umaco Ultra-Clean data sheet for full instructions.

## Etching

A rough profile is recommended for proper adhesion which may be obtained by etching the concrete using Umaco Ultra-Etch. Apply Umaco Ultra-Etch generously at full strength then let it work into the concrete for 10 minutes.

Then rinse thoroughly with water and allow to dry. Read Umaco Ultra-Etch data sheet for full instructions. Concrete surfaces that are very smooth, non-porous or those that have been previously coated, may need to be prepared by mechanical means such grinding. Ultimately, a porous surface is required for the material to bond properly. Test by sprinkling some water on the surface. If the water is quickly absorbed, the surface is ready. If the water beads up, further preparation is required. Contact a GraniteLite™ representative for more information.

## Cracks & Repair

All cracks, pitted, spalled and damaged concrete must be repaired using Umaco Universal 1023 and allowed to cure for a minimum of 12 hours (at 70°F). Refer to Umaco Universal 1023 data sheet for full instructions regarding patching, repairing and skim-coating concrete surfaces.

## Concrete Moisture

For concrete slabs subject to high moisture, Umaco Ultra-Prime MVB must be used as the primer and bond-coat in place of GraniteLite™ Prime•Bond•Seal. Contact a GraniteLite™ representative for more information.

## MIXING

Stir well before using. Should only be applied when the ambient and surface temperatures are at least 50°F.

## APPLICATION

### Primer

Apply GraniteLite™ Prime•Bond•Seal using a 1" nap roller at a rate of 200 ft<sup>2</sup> per gallon. Proper application should produce a thin continuous film. Do not allow to puddle. Allow prime coat to completely dry (approximately 30 to 60 minutes at 70°F) prior to applying bond-coat. If surface is extremely

porous, two coats of primer may be necessary. Test by sprinkling some water on the primed surface. If the water is quickly absorbed, the surface needs another coat of primer. If the water beads up, the surface is ready for bond-coat. If a second coat of primer is required, allow the first coat to dry completely allowing applicator to walk on the surface. Air movement by fan can accelerate the drying time.

## Bond-Coat & Broadcast

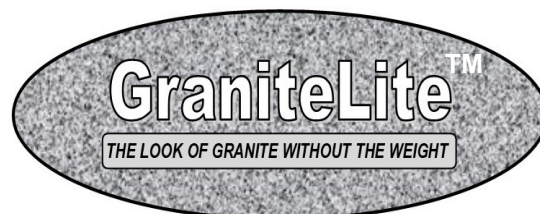
Apply GraniteLite™ Prime•Bond•Seal using a 1" nap roller at a rate of 200 ft<sup>2</sup> per gallon. Proper application should produce an even, continuous film. Do not allow to puddle. Once bond-coat has been applied, immediately broadcast GraniteLite™ Color Granules by hand or by using GraniteLite™ Broadcast Gun & Hopper over the surface completely covering to rejection (approximately 6-8 ft<sup>2</sup> per pound). Spiked shoes may be worn while broadcasting. Do not allow bond-coat to dry before broadcasting granules. Work in sections that are manageable to prevent this from happening. Allow broadcasted granules to bond and fully dry to the surface (approximately 6 hours at 70°F). Then sweep up excess GraniteLite™ Color Granules and retain for future use.

## Scrape Broadcasted Surface

Lightly scrape the broadcasted surface to knock down the pointed tips by using a broad knife or very flexible light scraper. Vacuum entire area and discard of any residue prior to applying topcoat.

## First Topcoat

Stir well. Apply first topcoat of GraniteLite™ Prime•Bond•Seal using a 3/4" - 1" nap roller at a rate of 200 ft<sup>2</sup> per gallon. Allow first topcoat to fully dry prior to applying the second topcoat.



Phone: 978-453-8881  
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**Second Topcoat**

Allow first coat to dry (approximately 30 to 60 minutes at 70°F) then using a 3/4" - 1" nap roller, apply a second topcoat of GraniteLite™ Prime•Bond•Seal at a rate of 200-250 ft² per gallon.

**For more demanding applications such as surfaces subjected to heavy foot traffic, fork lift traffic, vehicular traffic & chemical attack the following sealers are recommended as the 2nd topcoat:**

**Umaco Ultra-Shield 200 (epoxy)**

Interior, high build coating

**Umaco Ultra-Guard 300 (polyaspartic)**

Interior/Exterior use, extremely UV stable

**Umaco Ultra-Glaze 400 (urethane)**

Interior/Exterior use, extremely UV stable

**Contact a GraniteLite™ representative to discuss which topcoat is right for your project.**

**OPTIONAL NON-SLIP ADDITIVE**

Where additional slip resistance is required, blend 3.5 ounces of GraniteLite™ Sure-Grip per each gallon of GraniteLite™ Prime•Bond•Seal. GraniteLite™ Sure-Grip is compatible and may be blended with all GraniteLite™ sealers.

**WATERPROOF MEMBRANE**

For applications which may require a waterproof membrane such as balconies and decks (with living space or storage below), Umaco Ultra-Flex 700 may be used as a membrane and bond-coat. Contact a GraniteLite™ representative for more details.

**CURING**

Allow topcoat sealer (GraniteLite™ Prime•Bond•Seal) to cure 4 to 6 hours before allowing light foot traffic. Curing times will be extended if the humidity is at or above 85%. Air movement by fan can speed up curing times.

**COVERAGE (APPROXIMATE)**

GraniteLite™ Prime•Bond•Seal  
Primer.....200 ft²/gallon  
Bond-Coat.....200 ft²/gallon  
First Topcoat.....200 ft²/gallon  
Second Topcoat.....200-250 ft²/gallon

**PRECAUTIONS**

Should only be applied when the ambient and surface temperatures are at least 50°F. Dew point must be 5°F or more below the surface temperature.

**CLEAN-UP**

Wash hands and tools with water immediately after use.

**DISPOSAL**

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

**MAINTENANCE**

To prolong the life of the flooring system, a regular maintenance routine using GraniteLite™ Cleaner & Degreaser is highly recommend. Read GraniteLite™ Cleaner & Degreaser data sheet for full instructions.

**TECHNICAL DATA**

**Physical Properties at 77°F (25°)**

VOC, ASTM D3960.....<100 grams/liter  
Standard Viscosity Clear.....250-300 cps  
Percent Solids by Volume.....35%-38%  
Mix Ratio.....Single Component  
Recoat Time.....30 to 60 minutes  
Light Traffic.....4 to 6 hours  
Full Cure 50°F to 90°F.....3 days  
Shelf Life 40°F to 100°F.....1-1/2 years  
Packaging.....1G and 5G

**Mechanical Properties at 77°F (25°)**

Resin & Hardener.....Standard  
Adhesion, ASTM D7234.....>400 psi  
Hardness (Shore D) ASTM D2240...70-80  
Water Absorption, ASTM D570.....<0.1%  
Flame Test, ASTM E648.....Class 1

**WARNING**

Eye and skin irritant. May cause dermatitis and sensitization. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, mist and spray. Use with good ventilation. Dust masks, eye protection and gloves are recommended when using this product. Read and follow product Safety Data Sheet (SDS) before using this product. 24 Hour Emergency Medical/Spill Information (Chemtrec): 800-424-9300

**KEEP OUT OF THE REACH OF CHILDREN!**

**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)*

**GraniteLite™ is a division of Umaco, Inc.**



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