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Architectural Concrete Solutions

BOMANITE VITRAFINISH

Technical Bulletin and Application Guideline

Bomanite VitraFinish is a water-based, impregnating lithium silicate modified surface treatment for polished concrete and toppings. Bomanite VitraFinish further densifies the concrete surface while enhancing color and providing additional stain resistance. Concrete treated with Bomanite VitraFinish will breathe; allowing moisture transmission through the concrete, but will retard the transfer of damaging and discoloring alkali materials. Floors treated with VitraFinish are easier to maintain with improved stain resistance over untreated floors. Bomanite VitraFinish is the primary surface treatment used over Bomanite Stabilizer Pro in the Bomanite Custom Polishing System.

FEATURES AND BENEFITS:

- Improves water and chemical resistance
 - Less than 50 g/l VOC content
 - Can be re-applied when required
 - Allows vapor transmission
 - Reduces dusting of concrete
 - Increases surface density
 - Lowers maintenance costs
 - Decreases void percentage at surface
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GENERAL INFORMATION:

Color

Milky white liquid.

Packaging

Bomanite VitraFinish is available in 1-gallon, 5-gallon and 55-gallon unit sizes.

Coverage Rates

Note: Coverage rates based on application over polished Bomanite Stabilizer Pro. One gallon of Bomanite VitraFinish covers approximately 600-1,200 square feet per coat. A typical application will involve two or three light coats of Bomanite VitraFinish. Diluting VitraFinish 10-30% with clean, potable water is acceptable for extremely dense surfaces or to facilitate greater coverage.

Storage and Shelf Life

Protect from freezing during long term storage for optimal shelf life.

PHYSICAL CHARACTERISTICS AND TECHNICAL DATA

USDA approved for use in food processing areas

PHYSICAL PROPERTIES

Physical.....	liquid
Odor.....	none
Color.....	milky/hazy
Flash point.....	none
Specific gravity.....	1.11
pH.....	11±
Toxicity.....	none
Boiling point.....	230 °F/110 °C
Freeze temperature.....	32 °F/0 °C
Freeze harm.....	none
Shelf life.....	12 months
Hazardous vapor.....	none
UV stable.....	yes
Packaging.....	1-, 5-, and 55-gallon units

GENERAL GUIDELINES

- Application must be made to concrete with temperature higher than 40 °F and maintained at this level or above for a minimum of 12 hours thereafter. Temperature and humidity will dramatically effect the drying time of this product.
- Bomanite VitraFinish is a very fluid product that will not fill any cracks or control joints in the slab.
- The product can be diluted prior to application if required for dense surfaces or for ease of application.
- Do not expose the Bomanite VitraFinish treated floor to water, excessive abuse or chemicals during the first 24 to 48 hours after application.
- Apply the Bomanite VitraFinish at the end of the polishing process as the final step.
- Be sure the concrete is tacked wiped clean with a damp (not wet), non-linting mop or equal as dust will be fused to the concrete surface by the Vitrafinish
- Typically, streaking and unevenness in the Bomanite VitraFinish finish is the result of over application of the product.
- It is important to burnish between coats after they dry. Use a high speed propane burnisher equipped with HTC Twister pads for this process.

Application

1. Bomanite VitraFinish is applied using a microfiber applicator or t-bar equipped with a microfiber head. Fog a very light mist only adequate to wet the concrete surface with the applicator- avoid puddles or over-application. Be sure not to leave any streaks as they will be difficult to remove.
2. After the first coat has dried (30 minutes plus typically) use an HTC Twister pad to burnish the floor. Select the grit based of the evenness of the Vitrafinish application. If correctly applied a 1500 grit pad is typically the best starting pad. A more aggressive pad can be used first if streaks are present.
3. A second application is required once the first has dried, being sure to allow the coats to dry thoroughly as they can be slightly re-emulsified if re-wet too soon. This can cause lint to be pulled from the applicator and streaking to occur. Follow the same application and burnishing procedures as the first coat.
4. Typically 2 coats are adequate but if the product was cut with water to ease application then a third coat may be necessary. A heavy build of product on the floor is not desired. Burnish the final coat stepping up to the pad required to achieve the desired gloss.

Limitations

- Keep water off Bomanite VitraFinish for a minimum of 24 hours after application with 48 being recommended.
- Do not use acidic cleaners on treated surfaces.
- Do not allow spilled materials to dwell on surface as some staining may occur.
- Do not apply other coating or sealing products over Bomanite VitraFinish.
- Over application of Bomanite VitraFinish will potentially result in less abrasion resistance.

Specification Assistance

Consult The Bomanite Company for specification assistance, detailing, etc. This consultation is highly recommended prior to specification.

Warranty

This product is warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. Seller and manufacturer obligations under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective. The user assumes all other risks and liabilities resulting from use of this product.

Additional product information, technical bulletins and specifications are available online at www.bomanite.com or through one of our Bomanite Licensed Contractors. For additional assistance with specifications or technical issues, contact The Bomanite Company.