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# BOMANITE TOPICAL STAIN

## Technical Bulletin and Application Guideline

Bomanite Topical Stain is a solvent-blended colorant used to permanently antique porous cementitious materials including Bomanite Thin-Set II or Bomacron concrete paving and flooring. Applied at differing coverage rates and using varying techniques, Bomanite Topical Stain is formulated to produce surfaces that are mottled, translucent and marbled in appearance. Bomanite Topical Stain relies upon substrate porosity to maximize penetration and profile to maximize the mechanical bond to achieve durability. Bomanite Topical Stain is not suitable for hard steel-troweled surfaces or dense natural-stone finishes.

### FEATURES AND BENEFITS:

- *Easy application*
- *Quick drying time*
- *Consistent and predictable*
- *Non-toxic and environmentally friendly*
- *No reaction to achieve color*
- *No clean-up prior to sealing is necessary*
- *Unlimited color palette*
- *Interior or exterior*

### GENERAL INFORMATION:

#### Colors

Bomanite Topical Stains are available in 60 standard colors. Refer to the Bomanite Coloration Systems Standard Color Chart. Custom colors are also available. Some exotic colors may not be suitable for exterior use.

#### Coverage Rates

Material usage, per coat, is approximately 100-200 square feet per gallon. Actual coverage may vary depending on desired effects, surface texture, porosity, age and condition of concrete, application method and other local conditions.

#### Packaging

Available in pre-diluted clear base one, five and 55-gallon units and concentrated clear base one, five and 55-gallon units. The concentrated product needs to be diluted 50 percent with acetone or isopropyl alcohol prior to use. Alternatively water can be used as the solvent for applications over Thin-Set II in hot conditions. Water-based tint concentrates are available in standard and custom colors in one-pint tint per one-gallon and one-quart tints per five-gallon units. Use the same tint pack ratio for the concentrated material after dilution.

#### Storage and Shelf Life

Approximately one year for both water-based tint concentrate and clear Bomanite Topical Stain. Once the clear Bomanite Topical Stain is mixed with the water-based tint concentrate, shelf life is two weeks. Keep at a 40 °F minimum.

#### Product Data (Standard)

Odor .....Mild solvent odor  
 Color.....No color in base material  
 Opacity.....Cloudy  
 VOC.....0 grams/liter

### **Product Data (Concentrate)**

Odor ..... Sweet odor  
Color..... No color in base material  
Opacity..... Cloudy  
VOC..... 0 grams/liter

Drying Times (will vary depending on temperature, humidity, surface porosity and local conditions)

73 °F, 50% RH..... 1 hour after application  
Foot Traffic..... 1 to 2 hours after application  
Vehicular Traffic..... 24 hours after application

### **Application**

1.
  - a. Thinset II: Use Bomanite Liquid Release Advantage as a parting agent when imprinting the concrete or Bomanite Thin-Set II. Do not use mineral spirits, paint thinners or other oil-based products that may cause Bomanite Topical Stain failure due to lowered bond strength.
  - b. Imprinted Bomacron: When using Powdered Release Agent over Bomacron imprinted surfaces it will inhibit penetration of the Bomanite Topical Stain. Removal of all residual Release prior to application of Bomanite Topical Stain will be necessary.
2. Be sure to use a mild acid solution to open the concrete surface. Aggressively scrub the surface with a stiff broom or mechanical scrubber followed by pressure washing or vacuuming to remove all residue. Repeat the cleaning process, being aware that at no point should the acid solution be allowed to dry. It is recommended to use a degreaser and floor cleaner to neutralize the acid. This will also assist in removing residue while correcting the surface pH. Consult the appropriate technical bulletins and application guidelines for information on these products. Prior to the application of Bomanite Topical Stain, it is not necessary to acid etch Bomanite Thin-Set II unless a sandy exposure or a color-shading issue needs to be corrected.
3. Mix a one-pint Bomanite Topical Stain Tint Pack (water-based tint) with one gallon of Bomanite Topical Stain or a one-quart Bomanite Topical Stain Tint Pack (water-based tint) with five gallons of Bomanite Topical Stain. Be sure to thoroughly stir the mixed products by hand to ensure even distribution. It is necessary to stir the materials each time additional material is poured from the mixing vessel to the sprayer to ensure even pigment distribution as the pigment will settle fairly quickly. It is also imperative that the sprayer is regularly agitated during the spraying process.
4. Apply the mixed Bomanite Topical Stain with a pump-up sprayer equipped with solvent-resistant fittings and hoses. Coat the surface uniformly with minimal puddles, being sure to avoid overspray on adjacent surfaces. Depending on the desired look, additional coats may be applied. Be aware that Bomanite Topical Stain is designed as an antiquing product, which will represent approximately 20% of the final color. In all cases of Bomacron imprinted concrete, the predominant color should be derived from the Bomanite Color Hardener rather than the antiquing product.
5. Immediately after the product has dried, dry buff with a swing machine or broom to remove the antiquing off the high points of the imprint. Using water with this process will facilitate the removal of Bomanite Topical Stain. The stain may be applied in such a manner that it achieves the desired effect without buffing or washing the high points, but this technique will be more subject to high-point color wear if the seal coats are not well maintained.
6. Once the Bomanite Topical Stain has dried to the touch, water-based sealers may be applied. If utilizing a solvent-based sealer, it is necessary to let the Bomanite Topical Stain dry for 4-12 hours and to cut the sealer to a low-solids content (10-15%) with acetone. This diluted solvent-based product can be sprayed onto the surface (not rolled), allowed to flash dry and then recoated with a higher solids version (spray applied). Applying solvent-based sealer with a roller can cause the Bomanite Topical Stain to bubble or displace.

**Before application of this product, test in an inconspicuous area for desired results. If in doubt, consult The Bomanite Company.**

### **Sealers**

For suggested interior sealers, refer to the Bomanite Cures, Sealers and Finishes Cross Reference Guideline.

**NOTE: It is recommended to utilize water-based sealers for interior applications due to the hazards associated with solvent fumes.**

For suggested high-performance coatings, refer to the Bomanite Epoxies and Urethanes Cross Reference Guideline.

**NOTE: It is recommended to utilize water-based or 100% solids sealers and coatings for interior applications due to the hazards associated with solvent fumes.**

### **Maintenance**

Bomanite Topical Stain, like all surface colorants is heavily reliant upon the application technique along with the sealer applied over it for protection. The finished product must be kept clean for maximum durability and protection. Frequent removal of loose soils will significantly increase the service life of Bomanite Topical Stain or any surface coating. For removal of ground-in soil, use a neutral ph floor cleaner. Scrub with a broom, pressure wash or use a low-speed buffer equipped with red or blue scrub pads (light cleaning). Periodic resealing may be required depending on use and degree of care taken to maintain the sealer. Bomanite Topical Stain may be removed to some extent using a stripper. Consult the Bomanite General Maintenance Guidelines and product specific maintenance schedules for appropriate maintenance procedures.

### **Cautions**

Bomanite Topical Stain is a solvent-based product and therefore caution must be exercised in its use. Adequate ventilation will be necessary with applicators wearing appropriate protective gear such as gloves, eye protection, respirators, solvent resistant clothing, etc.

### **Limitations**

- Bomanite Topical Stain must be used with great caution for interior applications. Open flames, such as those associated with water heaters, furnaces and temporary heat sources, will cause ignition of the solvent fumes. It is recommended to substitute Bomanite Con-Color for interior applications.
- The color limitation of Bomanite Topical Stain is determined by the substrate color. Very light colors may not tint as effectively over a dark base. Generally a darker antiquing over lighter substrate color is recommended.
- Excess application of Bomanite Topical Stain can inhibit the penetration of subsequent seal coats and may result in color peeling over time. Bomanite Topical Stain is intended to be used as an antiquing product and not as paint.
- Failure to maintain the concrete in a reasonably clean condition by sweeping or wet cleaning will result in premature wear and color loss. Occasional resealing will be required for optimal service life.
- Consult the Bomanite Cures, Sealers and Finishes Cross Reference Guideline for more information on specific products suitable as a top-coat when resealing or final sealing a surface.
- Consult the appropriate Bomanite Technical Bulletin and Application Guideline for the correct uses and limitations of any Bomanite products used in conjunction with Bomanite Topical Stain.

### **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](http://www.bomanite.com) or through one of our Bomanite Licensed Contractors. For additional assistance with specifications or technical issues, contact Bomanite Technical Services or The Bomanite Company.***