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Architectural Concrete Solutions

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## RENAISSANCE by BOMANITE

### System Guideline

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The Renaissance by Bomanite System incorporates Bomanite Integral Color into the concrete at the time of placement. Once cured the concrete is ground to expose the desired amount of aggregate, then polished to the required gloss level and treated with a Bomanite stain resist. The primary benefit to Bomanite Renaissance is the simplicity of installation and durability of color. With no topical dyes or products needed to achieve color in the floor, the process is much like polishing un-colored concrete. This makes the Renaissance by Bomanite System cost effective in comparison to other more labor intensive systems.

The key to integrally colored floors is pigment loading and raw material consistency. A higher pigment loading such as utilized with Bomanite Integral Color results in more consistent color from load to load of concrete. This higher loading level of 3.6% and greater is markedly apparent due to improved color-saturation compared to common pigment loadings of 0.5% to 1.5% on the marketplace. This reduces the effect of raw material variations common to ready-mixed concrete.

Renaissance by Bomanite is intended primarily for new construction or major renovation projects. Full depth pours both suspended and slab on grade along with un-bonded thick section toppings 3" or greater in thickness are applicable applications for Renaissance. Both the quality of the concrete and finishing are critical to the success of the finished product.

Typically applied products such as Bomanite Concrete Dye or Bomanite Chemical Stain are compatible with Bomanite integrally colored concrete floors. Consult the Patène Teres by Bomanite System Guideline and/or applicable technical bulletins for further information on these products and systems.

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#### FEATURES AND BENEFITS:

- ***Color mixed integrally into concrete***
- ***Highly durable***
- ***Good abrasion resistance***
- ***Range of aggregate size possible***
- ***Various exposure levels***
- ***Natural Appearance***



## **GENERAL INFORMATION:**

### **Key Components of a Renaissance System**

**Bomanite Integral Color:** Pigment admixtures engineered for use in ready-mixed concrete

**Bomanite Stabilizer Pro:** Silane modified Lithium Silicate chemical hardener

**Bomanite VitraFinish:** Silane and Acrylic modified Lithium Silicate stain resist

### **Colors**

Consult the Bomanite Coloration Systems Color chart for the full range of standard colors. Note that Cream, Coquina and Birch Bark require the use of white cement. Other light colors, blues and greens may not be cost effective for full depth slabs due to higher than typical pigment loading and pigment types.

### **Basic Application Information**

The Renaissance by Bomanite System is installed exclusively by Bomanite Custom Polishing Licensees. The following technical information is a summary to aid in the understanding of the application process and to assist the specification process.

1. Integral Color is added to the ready mix concrete.
2. The concrete is placed and finished using power trowels.
3. The slab is cured preferentially with water or alternately treated with a dissipative wax based cure.
4. Protection is placed over the concrete during construction.
5. After the concrete has cured a minimum of 14 days the grinding and polishing process can be undertaken.
6. Initial grinding exposes the desired amount of aggregate type and size.
7. Control joints are filled with semi-rigid joint filler.
8. The concrete is chemically hardened.
9. Subsequent polishing with progressively finer diamond impregnated tooling is undertaken to the desired gloss.
10. Final stain resistant and hardening treatment followed by burnishing of concrete completes the process.
11. The concrete is protected from chemical exposure until building occupation.

### **Maintenance**

Consult the Bomanite Custom Polishing Maintenance Guideline for complete information on how to maintain polished concrete flooring.

### **Limitations**

- Final color will be influenced by factors such as aggregate type and size, water content of concrete, environmental variations etc. A thorough sampling and mock-up process is required as part of the installation of the system.
- Variation in aggregate exposure during the grinding process is controlled by the quality of the concrete more so than by the grinding process itself.
- Lack of protection from trade damage along with chemical exposure resulting in staining will detract from the quality of the finished product.
- Surface defects and repairs may be appreciably noticeable once the process is complete.

### **Warranty**

Bomanite products are 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 system 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 The Bomanite Company.***