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Architectural Concrete Solutions

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## BELCOLORE by BOMANITE

### System Guideline

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The Belcolore by Bomanite System incorporates Bomanite Color Hardener onto the concrete at the time of placement. Once cured the concrete is lightly ground to expose variegated amounts of aggregate, then polished to the required gloss level and treated with a Bomanite stain resist. The primary benefits to Bomanite Belcolore are the range of colors available, the fine aggregate characteristics and the excellent durability of color. The unique look of a polished, color hardened floor sets Belcolore by Bomanite apart from other conventional concrete polishing systems.

The key to color hardened floors is surface density and pigment loading. The select quartz aggregates, polymers and cement content significantly increase the abrasion resistance of a Belcolore by Bomanite floor over conventional concrete- especially concrete made with softer, less abrasion resistant aggregates such as limestone. A higher pigment loading combined with white cement-based formulations such as utilized with Bomanite Color Hardener results in consistent color throughout the floor. Alternately multiple colors can be broadcast and incorporated into the concrete creating a mottled, highly variegated appearance. In either case the use of color hardener negates the appearance of coarse sands and stone along with the effect of raw material variations common to ready-mixed concrete.

Belcolore 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 Belcolore. The quality of the placing 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 color hardened concrete floors. Consult the Patène Teres by Bomanite System Guideline and/or applicable technical bulletins for further information on these products and systems. If a thin section, bonded topping version of Belcolore is desired, consult the Modena by Bomanite System Guideline for more information on achieving the Belcolore look.

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#### FEATURES AND BENEFITS:

- **Color broadcast onto concrete**
- **Highly durable**
- **Excellent abrasion resistance**
- **Fine aggregate exposure**
- **Wide color selection**
- **Variegated appearance**



## **GENERAL INFORMATION:**

### **Key Components of a Belcolore System**

**Bomanite Color Hardener:** Colored dry shake hardener engineered for use on 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 blues and greens may be marginally more expensive due to pigment types.

### **Basic Application Information**

Belcolore 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. Color Hardener is broadcast onto the concrete during placement.
2. The color hardener is re-applied 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 light grinding exposes the desired amount of fine aggregate.
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 finishing operation, 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 a factor with color hardened concrete. A variegated paste polish look is typical with the variation considered an attribute of the system.
- 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.***