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Architectural Concrete Solutions

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## **BOMANITE MODENA MONOLITHIC**

### Technical Bulletin

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Bomanite Modena MONOLITHIC is a cementitious interior bonded floor topping mix that is blended with selected decorative aggregates using traditional ready mix concrete equipment, then placed and trowel finished. Once fully cured Bomanite Modena MONOLITHIC is ground to expose the aggregates and polished to the desired gloss level. Bomanite Modena MONOLITHIC is installed over concrete in a wet on wet process the same day the concrete slab is poured. Cove base and stair components are generally pre-cast and finished to match. Bomanite Modena MONOLITHIC is engineered to work best with aggregates such as granite, glass, marble, porcelain, etc. that range from 1/4" to 3/4" in size. Unlike comparable terrazzo flooring, Bomanite Modena MONOLITHIC is designed specifically to be polished with an aggregate gradation similar to that of concrete. Bomanite Modena MONOLITHIC is integrally colored in a wide range of options and may be seeded with additional aggregate when creating highly unique floors.

Bomanite Modena MONOLITHIC is generally installed at a 3/4" to 1 1/2" thickness dependent upon the size of aggregate with thicker section thickness possible for select applications. Bomanite Modena MONOLITHIC may be lightly walked on 24 hours after placement, with grinding and polishing generally taking place after three days or longer of cure time. Testing of moisture drive and assessment of the concrete integrity prior to the installation of Bomanite Modena MONOLITHIC is a necessity. Due its unique concrete like properties Bomanite Modena MONOLITHIC can be hard troweled and paste polished if desired.

For applications over existing concrete where aggregate less than 1/8" in size and rapid installation is desired consult the Bomanite Modena SL Technical Bulletin. For applications over existing concrete where aggregate larger than 1/8" in size and/or the ability to surface seed aggregates is desired, consult the Bomanite Modena TG Technical Bulletin.

As with all Bomanite Systems, Bomanite Modena Monolithic mix designs, associated products and application procedures are available only to Bomanite Licensed contractors.

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#### **FEATURES AND BENEFITS:**

- **Durable aggregate exposure**
- **Very cost effective to terrazzo flooring**
- **Integrally colored**
- **No sealers or waxes required**
- **Engineered to be polished**
- **May be hand seeded**

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#### **GENERAL INFORMATION:**

##### **Colors**

The full range of Bomanite colors as found on Bomanite Coloration Systems Standard Color chart.

Note: Bomanite Modena MONOLITHIC is available for specification in a range of pre-determined aggregates and colors along with custom options as developed by Bomanite Licensees.

##### **Coverage Rates**

Coverage rates will vary from 250 to 320 square feet per yard. Contact your Bomanite Custom Polishing Licensee for coverage rates specific to your job.

### **Packaging**

Bomanite Modena MONOLITHIC is a proprietary mix design that utilizes a combination of local materials along with approved admixtures and aggregates.

### **Basic Application Information**

Bomanite Modena MONOLITHIC 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. Consult the Bomanite Modena MONOLITHIC Application Guideline for complete details.

#### **Base Slab**

1. Pump, place, or otherwise convey the base concrete at a slump not in excess of five inches for a slab on grade.
2. After the concrete has been placed, immediately screed concrete approximately one inch short of finished elevation.

#### **Topping Slab**

1. Just before initial set float and apply Bomanite Modena MONOLITHIC topping
2. If seeded aggregates are desired apply via hand and float into surface.
3. Steel trowel finish

#### **Curing**

1. Apply cure and seal immediately after finishing operations are complete.
2. After 24 hours protect hardened surface by covering with scuff-proof, nonstaining builder paper and hardboard or equivalent.
3. Keep floors covered and free of traffic and loads for a minimum of 3 days.
4. Maintain an ambient temperature of 50 °F or above during the curing period.

#### **Joints**

1. Install control joints in the slab within 24 hours of Bomanite Modena MONOLITHIC placement.
2. After a minimum of 14 days, apply poly urea control joint filler in all control and saw cut construction joints.

#### **Grinding and Polishing**

1. After minimum 14 day cure time, surface shall be honed or polished to proper specifications (400-1500 grit).
2. Fill any pinholes as needed during the grinding process.
3. Utilize Bomanite Stabilizer Pro and Bomanite VitraFinish at the specified coverage rates and as part of the Bomanite Custom Polishing Process.

### **Limitations.**

- Do not use in areas exposed to acids, their salts or other materials known to rapidly attack or deteriorate portland cement concrete.
- Do not use on areas subjected to freeze/thaw cycles.

### **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 The Bomanite Company.***