

# Bomanite®

Your Single Source For Innovative  
Architectural Concrete Solutions

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## BOMANITE ALLOY

### System Guideline

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Bomanite Alloy is an architectural exposed concrete with varying exposure depths using non-native quartz and decorative aggregates that are surface seeded on concrete. The Bomanite Alloy System utilizes specialized concrete mix designs, dry shake decorative aggregate hardener and/or integral color, topical treatments and advanced application procedures to produce a finished product that showcases the seeded aggregate.

The final product is unique alternate to other decorative concrete finishes while producing a monolithic concrete slab with a low life cycle cost due to the pre-aged nature of the surface. Bomanite Alloy is suited for exterior applications—anywhere that improved wear resistance for light- to moderate-duty vehicular or foot traffic combined with an architectural finish is necessary. Due to the use of Bomanite Color Hardener, these highly durable surfaces are available in a multitude of standard and custom options, including cost effective light-reflective formulations that may not require the use of white cement to reduce heat island effect.

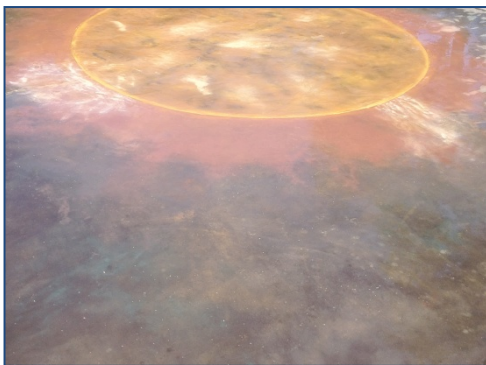
Bomanite Alloy is intended for both new construction and major renovation projects. Bomanite Alloy is most commonly installed as full depth slab on grade pours along with un-bonded thick section toppings 3” or greater in thickness over membrane applications. The specialized design of the dry shake hardener along with placing and finishing are critical to the success of the finished product.

Typically applied products such as Bomanite Chemical Stain are compatible with Bomanite Alloy Systems. Consult the applicable technical bulletins for further information on these products and systems. Consult the Bomanite Sandscape Texture and Bomanite Revealed System Guidelines for additional exposed aggregate options.

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

- ***Decorative aggregate exposure***
- ***Durable for sustainable design***
- ***Highly architectural installations***
- ***Increased surface and slip resistance***
- ***Permanent lightfast colors***
- ***Wide range of aggregate options***



## **GENERAL INFORMATION:**

### **Key Components of a Bomanite Alloy System**

**Bomanite Color Hardener Concentrate:** Colored dry shake hardener engineered for use on ready-mixed concrete

**Bomanite Con-Shield:** Lithium Silicate chemical hardener

**Bomanite Con-Clean:** Reactive surface etch solution

**Bomanite HydroLock:** Modified acrylic semi-penetrating low gloss sealer

### **Optional Components of a Bomanite Alloy System**

**Bomanite Surface Deactivator:** Reactive surface etch retarder

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

**Bomanite HydroSeal:** Modified silicate penetrating sealer

**Bomanite Chemical Stain:** Reactive stains formulated for use on ready-mixed concrete

### **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. Incorporating large aggregates into the concrete may dictate the use of Bomanite Integral Color in conjunction with Bomanite Color Hardener which will have an effect on the finished cost.

### **Basic Application Information**

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

1. Bomanite Alloy blended Color Hardener is applied to the surface of the concrete during placement.
2. Additional finishing is undertaken to reduce lap lines and trowel licks in finished surface.
3. The concrete surface is etched.
4. The concrete is chemically hardened.
5. Stains are applied if specified.
6. Final stain resistant treatment completes the process.
7. The concrete is protected from chemical exposure until building occupation.

### **Maintenance**

Consult the Bomanite Exposed Aggregate Systems Maintenance Guideline for complete information on how to maintain exposed aggregate paving.

### **Limitations**

- Final color will be influenced by factors such as 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 etching process is a factor with all surface seeded applications
- 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.***