

What Can You Imagine?

**Bomanite®**  
**EXPOSED**  
**AGGREGATE**  
**SYSTEMS**  
**ALLOY**

Imagine



### Sustainable. Versatile. Durable

Bomanite Alloy™ is a sustainable exposed aggregate finishing option that incorporates a unique broadcast applied colored binder containing specialty aggregates. Installed by Bomanite Licensed concrete craftsmen, Bomanite Alloy is the product of choice for projects requiring a highly decorative and durable surface seeded exposed aggregate finish. Natural stone such as granite, quartz or marble along with unique aggregates such as glass or compounded abrasives are common aggregates of choice for Bomanite Alloy installations. The natural non-skid properties and abrasion resistant aggregates make Bomanite Alloy the perfect choice for high traffic exterior applications including entries, municipal or public works projects, hospitals, educational facilities, museums, pool decks, plazas and more.



# Bomanite®

## EXPOSED AGGREGATE SYSTEMS

### ALLOY

## REALIZE The Possibilities.

### *Engineered Broadcast Hardener For Durability*

Bomanite Alloy is a system comprised of pre-blended binders, light fast pigments, and architectural aggregates along with surface applied treatments to harden and densify the surface resulting in durability more commonly associated with natural stone. Designed for outdoor applications, this broadcast applied system is engineered for monolithic pours with high-strength performance. The decorative aggregate finish is a robust, sustainable option where low-maintenance, slip resistance and a highly decorative concrete surface is desired.

### *Stands The Test Of Time*

Bomanite Alloy is neither a topping nor simply un-prepared aggregates applied to concrete, but rather an engineered system that allows for difficult to bond aggregates to remain imbedded in the surface of concrete without issues like Alkali Silica Reaction (ASR) degrading the aggregates or their bond. The key components of the Alloy process are not new to Bomanite; our flagship products Bomanite Color Hardener and Con-Shield have been in use for decades with millions of feet of successful installations in all climate types. What is new and unique is the utilization of these two products combined with our ability to incorporate ASR mitigating Supplementary Cementitious Materials

(SCM) into our Color Hardener. This specialized SCM is a color neutral post industrial by-product that inhibits Alkali Silica Reaction while improving the binding of aggregates through its small particle size. This combined with the Lithium Silicate containing Bomanite Con-Shield and specified concrete containing additional SCM, allows for the use of aggregates in our Alloy applications that would have proved detrimental to the concrete surface in the past.

### *Environmentally Conscious Application*

The sustainable properties of Bomanite Alloy make it an excellent choice for environmentally conscious applications. The Bomanite Color Hardener used for Alloy installations replaces 60% of the ordinary Portland cement with a post-industrial recycled pozzolan (SCM). The aggregates are selected from regional and/or recycled sources with as much as 100% of the aggregate being broadcast derived from recycled sources. Urban heat island effect can be greatly reduced by thoughtfully designed installations. Third party independent testing has shown that Bomanite Alloy can have as high as .69 solar reflectance with traditional installations utilizing the correct color combinations easily exceeding .29 solar reflectance, allowing for Bomanite Alloy to be far less absorptive of the sun's heat energy than conventional colored concrete. Most importantly the hard durable aggregates utilized in a typical Bomanite Alloy installation result in a robust concrete that has an excellent life cycle with reduced maintenance requirements.

### *Installed By The Best*

Bomanite Alloy is installed utilizing carefully crafted Bomanite application products and procedures by trained and Bomanite licensed applicators that specialize in architectural concrete installations. Consult with your local Bomanite Exposed Aggregate Licensed Contractor for color charts, standard and custom samples, additional color and aggregate combinations or feel free to contact Bomanite to discuss your next project.

Your Authorized Bomanite  
Exposed Aggregate Licensed Contractor is:

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