Your Single Source For Innovative
Architectural Concrete Solutions

BOMANITE CONCRETE DYE

Technical Bulletin

Bomanite Concrete Dye is a non-reactive organic pigment that deeply penetrates into concrete and cementitious toppings, residing in the microscopic voids of the substrate structure. When applied to profiled or polished concrete, Bomanite Concrete Dye will provide intense coloring effects without creating a film or coating that can be worn away. Bomanite Concrete Dye is a viable alternative to traditional acid-based stains when a larger color palette or ease of installation is required. Bomanite Concrete Dye can be utilized in all Bomanite Systems as a Coloration System for interior concrete flooring and precast elements not subjected to UV light exposure.

FEATURES AND BENEFITS:

- ***Superior Coloration System for polished concrete***
- ***Comprehensive range of colors***
- ***Compatible with all cementitious Bomanite Systems***
- ***Can be diluted with both water and acetone***
- ***Individual dye colors can be field blended***
- ***Can be applied over Bomanite Chemical Stain***

GENERAL INFORMATION:

Colors

Refer to the Bomanite Concrete Dye Color Chart for standard color selections. Custom colors are also available.

Product Data

Refer to corresponding color MSDS for hazard-related information.

Solvent-Based Version
Physical ……...Liquid
Odor ……Strong solvent smell
Solids after application ……..100%
UV stability……..5-10%+ fading to be expected if exposed
(consult The Bomanite Company for details)

Water-Based Version
Physical ……...Liquid
Odor ……Little to none
Solids after application ……..100%
UV stability……..5-10%+ fading to be expected if exposed
(consult The Bomanite Company for details)

Sealers

For suggested interior sealers, refer to the Bomanite Sealers/Finishes Cross Reference Guideline.
NOTE: It is recommended to utilize water-based sealers for interior applications due to the hazards associated with solvent fumes.

For suggested high-performance coatings, refer to the Bomanite High-Performance Coatings Cross Reference Guideline.

NOTE: It is recommended to utilize water-based or 100% solids sealers and coatings for interior applications due to the hazards associated with solvent fumes.

Maintenance

Maintenance will vary depending on a number of factors including volume and intensity of traffic, UV light exposure, geographic location and weather conditions. For instance, interior applications will require a different routine maintenance program than exterior projects. Residential applications typically require less cleaning and maintenance than commercial and municipal projects. In large interior commercial applications, a qualified floor maintenance contractor is recommended for routine cleaning. Consult the Bomanite General Guidelines Maintenance Schedule and product specific Bomanite Maintenance Schedules for appropriate maintenance procedures.

Limitations

- For interior use only as surface will fade over time if exposed to UV light.
- Surface to be treated must be properly prepared to provide an open profile allowing for color penetration.
- Existing sealers, coatings and contaminates must be removed prior to application.
- Excess Concrete Dye color residue left on the surface can inhibit bond of subsequent treatments.
- Topical sealer or treatment required to protect the surface and enhance color.
- Solvent-based version is highly flammable.
- Do not allow the water-based version to freeze.

Important Note About Organic Colorants

Organic oxides, however bright and exotic by nature, are far more susceptible to fading over time for a variety of reasons. UV light exposure is the main contributing factor to fading. Different colors are affected by UV light at different levels. Some organic colors will barely fade over time while others will dramatically fade in a short period of time. The type of top coats utilized will also affect the UV light exposure levels. As a rule of thumb, it is recommended that organic colorants are used for interior applications with little to no UV light exposure.

Another factor contributing to fading is the lack of a binder to hold the colorants in place. While Bomanite Con-Color forms a crystalline structure around its pigment particle and the colored precipitate of Bomanite Chemical Stain forms from within the pores and structure of hydrated cement particles, Bomanite Concrete Dye is simply fine-ground particulates that are drawn into the microscopic voids. This reaction is very similar to that of oil that creates a stain as it is drawn into concrete through a suction effect. These particulates, once in these voids, can be displaced by moisture movement whether introduced from the surface of the concrete/topping or from moisture transfer within. This is why UV testing is combined with weathering or exposure to the elements. Some organics that are considered to be relatively light-fast can appear to fade when in reality they are simply being drawn further into the concrete voids. Similarly, these organic particles can be drawn out of the concrete. This can be an issue when washing multiple colors or dealing with a variety of concrete slabs and their varying levels of porosity. A stain resist or sealer/coating will help lock these organic particles in place and improve their resistance to migration.

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 or through one of our Bomanite Licensed Contractors. For additional assistance with specifications or technical issues, contact The Bomanite Company.