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Architectural Concrete Solutions

Technical Bulletin

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June 2009

BOMANITE STABILIZER PRO Permanent Concrete Densifier

PRODUCT DESCRIPTION

A) Composition and Typical Uses

Bomanite Stabilizer Pro is a clear water-based, non-toxic, odorless, penetrating, impregnating, lithium product utilized to harden and seal concrete in conjunction with the Bomanite Custom Polishing System. Bomanite Stabilizer Pro, when applied to concrete surfaces, reacts with the free calcium hydroxide to form a hard, abrasion-resistant permanent crystalline structure. Bomanite Stabilizer Pro contains an additive that protects against chloride ion intrusion for applications such as garage decks or other structures exposed to salt or salt spray. The lithium component in Bomanite Stabilizer Pro will prevent or reduce damaging alkali-silica reactions. Concrete treated with Bomanite Stabilizer Pro will breathe; allowing moisture transmission through the concrete, but will retard the transfer of damaging and discoloring alkali materials.

Bomanite Stabilizer Pro is spray applied using a medium airless sprayer or pump-style sprayer and agitated by broom or mechanical means into the concrete surface. Usually two applications are required with additional necessary if the concrete being treated is soft or porous. Bomanite Stabilizer Pro can either be polished or buffed to a high sheen or used as a stand-alone product for the protection of concrete. Application can occur at any time from new to existing concrete, with final chemical resistance, water resistance and density achieved after 7 to 10 days. Coatings may be applied over the Bomanite Stabilizer Pro within a 24-hour window from point of initial application. Reacted Bomanite Stabilizer Pro will begin to reject future coatings that require penetration to bond after this time frame. For superior initial protection, an application of Bomanite Stainguard is recommended prior to opening treated areas to use. Consult the Bomanite Stainguard Technical Bulletin and Bomanite Maintenance Schedules prior to use.

B) Advantages and Limitations

Advantages

- Allows necessary vapor transmission
- Greatly reduces dusting of concrete
- Excellent primer/sealer for coatings (if applied during chemically open time)
- Halts or significantly reduces ASR (Alkali-Silicate Reactions)
- Improves freeze/thaw resistance
- Improves past carbonation effects
- Increases concrete's density at the surface
- Increases surface abrasion resistance
- Internal humidity stabilization
- No VOC/VOS content
- Permanent application
- Prevents free moisture migration
- Lowers maintenance costs
- Significantly decreases void percentage at the surface

Limitations

- Do not use acidic cleaners on treated surfaces
- Do not allow spilled materials to dwell on surface as some staining may occur



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PHYSICAL CHARACTERISTICS AND TECHNICAL DATA

USDA approved for use in food processing areas.
Recommended coverage rate of 300-600 square feet per gallon, with a total yield of 100-200 square feet per gallon based on a three-coat application.

Packaged in 1-, 5- and 55-gallon units.

PHYSICAL PROPERTIES

| | |
|--------------------------------|---------------|
| Physical | liquid |
| Odor | none |
| Color | clear |
| Flash point | none |
| pH | 11± |
| Toxicity | none |
| Boiling point | 230 °F/110 °C |
| Freeze temperature | 32 °F/0 °C |
| Environmentally | neutral |
| Solids after application | 100% |
| UV stable..... | yes |

SPECIFICATION ASSISTANCE

Consult The Bomanite Company for specification assistance, detailing, etc. This consultation is highly recommended prior to specification.

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.