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Architectural Concrete Solutions

Technical Bulletin and Application Guideline

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June 2009

BOMANITE HYDROLOCK WATER-BASED CONCRETE AND MASONRY SEALER

PRODUCT DESCRIPTION

Bomanite HydroLock is a water-based, single component, epoxy-modified, penetrating sealer. It is VOC, EPA, OSHA and FDA compliant. The product is non-hazardous and has the consistency of water. It is milky white in appearance when applied, and dries crystal clear creating a finish that ranges from a satin sheen to a semi-gloss depending on the surface. It performs well inside and outside on both new and old surfaces. Bomanite HydroLock is appropriate for cast-in-place concrete as well as decorative stamped and patterned concrete that has been colored using various coloring systems like integral, acid-stained, release agents and color hardeners. It will also perform well on concrete and clay pavers, natural stone, porous tiles and terrazzo.

APPLICABLE STANDARDS

VOC Content: This product conforms to all VOC regulations. VOC content = 130 g/l.

APPLICATION

Warning: *Allow one to seven days for concrete to cure before application of Bomanite HydroLock. The concrete should appear dry on the surface.*

Surfaces must be thoroughly cleaned and dry prior to the application of Bomanite HydroLock. Depending on surface conditions consult Bomanite Technical Bulletins. Use of Bomanite Concrete Degreaser, Bomanite Floor Cleaner, and/or Bomanite Con-Clean should be used for fast, efficient removal of staining, oils, dirt, soils, and efflorescence.

Bomanite HydroLock shall be evenly applied to the surface using a low-pressure bulk or pressure regulated pump up sprayer with a nozzle pressure not exceeding 25 psi. The surface should be back rolled with a roller, mop or lambs wool applicator to ensure an even consistent application on the surface.

The treated area should be protected from rain or moisture and not be trafficked for 24 hours after completion. Work shall cease in inclement weather i.e., rain, strong winds or temperatures below 45° F.

SUPPLEMENTAL SURFACE TREATMENT

Bomanite HydroLock will wear evenly even in high traffic areas. Areas that require more maintenance and cleaning can be resealed more frequently or as necessary. Resealed areas will not show vast differences in most cases so topical work can be done. Bomanite HydroLock is compatible with other surface treatments like interior floor finish. Always test an inconspicuous area to ensure proper physical and aesthetics results.

COVERAGE

Actual coverage may vary depending on the type, age and condition of the concrete, application method and other local conditions. Coverage will vary between 150-400 square feet per gallon. On rough textured old concrete the coverage will vary between 150-250 square feet per gallon. On smooth textured concrete the coverage will vary between 200-400 square feet per gallon.

LIMITATIONS

Do not expose to freezing temperatures in its liquid state. In cold weather, store in enclosed heated areas. A temperature of 45 degrees Fahrenheit must be maintained for a period of 24 hours prior to application. Test sealing is recommended to ensure both the proper physical and aesthetic appearance and properties prior to starting a project.

It is important to maintain material on the surface in order to provide protection for the concrete and the coloring system on decorative concrete surfaces. Use adequate ventilation and wear protective clothing. Harmful if swallowed, inhaled or absorbed through the skin. Wash hands thoroughly after handling and keep containers closed when not in use. Avoid breathing vapor mist and avoid direct contact with skin (see Material Safety Data Sheet).



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MAINTENANCE

Bomanite HydroLock is acid resistant so detergent and non-citric acid based cleaners, such as Bomanite Floor Cleaner, should be compatible and used for maintenance cleaning process. Test cleaners prior to general application, always thoroughly rinse after cleaning. Bomanite HydroLock will not show wear patterns and topical resealing can be carried out more frequently, without evidencing aesthetic differences, in high traffic areas. Bomanite HydroLock is also compatible with other surface treatments like Bomanite Interior Floor Finish. Always test on an inconspicuous area.

SPECIFICATIONS

COLOR.....	Milky white
ODOR.....	Slight ammonia odor
SPECIFIC GRAVITY.....	0.95 – 1.2 (water = 1)
VAPOR DENSITY.....	17 @ 20C/68F (est.)
FLASH POINT.....	Non-combustible
VOC.....	Less than 130 grams/liter
SAFETY.....	Conforms to skid resistance requirements (ASTM C 1028-89)
DRYING TIME (will vary depending on temperature and humidity)	
Set to Touch.....	.20 – 60 minutes
Recoat.....	.20 – 40 minutes
Light Traffic.....	.24 hours
Package Sizes.....	1-gallon units
	5-gallon units
	55-gal units

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.