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Architectural Concrete Solutions

BOMANITE WATERPROOF MEMBRANE

Technical Bulletin

Bomanite Waterproof Membrane is a unique polymer emulsion waterproofing compound designed for under Bomanite or Bomacron imprinted decks where waterproofing is required. Bomanite Waterproof Membrane is also recommended as an isolation membrane for use on bonded or un-bonded topping slabs, metal pan deck constructed slabs, properly prepared over wood applications or other situations where slab cracking and movement is an issue.

Bomanite Waterproof Membrane is based on styrene butadiene latex that dries to form a tough, water and vapor resistant film. The chemistry is such that it bonds tenaciously to and in turn by other Bomanite repair products based on a similar polymer admixture. Waterproof Membrane is water-based, environmentally friendly, solvent free and totally free of volatile organic content (VOC).

Applied by roller, trowel, spray or squeegee, Bomanite Waterproof Membrane is typically applied in 3 coats totaling 60-120 mils Dry Film Thickness (DFT) sandwiched between layers of Bomanite Repair Mortar MP or FA. The Repair Mortar improves adhesion to the base concrete while filling any deficiencies in the slab profile such as chips, spalls or cracks that would compromise the membrane installation. The top coat of Repair Mortar provides the initial layer of protection to the membrane and provides an excellent substrate for subsequent toppings or floor coverings.

For applications where Bomanite Micro-Top XT is to be the final wear surface such as pedestrian decking and mechanical room flooring, the Waterproof Membrane is fabric reinforced with Bomanite Poly Fabric. This will provide a membrane/fabric build of approx. 120 mils DFT. For applications where a high build Bomanite product such as Bomanite Thin-set or conventional ceramic tile, stone or equal is being used as the wear surface, the membrane is applied at 60 mils DFT. The subsequent Repair Mortar FA or MP is then reinforced with Bomanite Poly Fabric.

Laboratory tests have established that Bomanite Waterproof Membrane A will remain pliable at temperatures as low as -15 °F and still maintain its crack bridging properties. This makes it an excellent choice for exterior applications in cold climates.

Bomanite Waterproof Membrane can be used directly under All Bomanite Topping Systems, seamless polymeric floors, ceramic tile, quarry tile, marble and other floor coverings. Bomanite Waterproof Membrane can also be used for mechanical equipment room waterproofing or computer access floor waterproofing, below grade and between slab applications.

FEATURES AND BENEFITS:

- **Forms a monolithic, tightly adhering, molded membrane**
 - **Environmentally safe, water based formulation**
 - **Zero VOC – SCAQMD compliant**
 - **Reduces reflective cracking caused by substrate movement**
 - **Mild Odor for interior applications**
 - **Thin section does not interfere with building elevations**
 - **Easily applied to irregular shapes**
 - **Quick drying**
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GENERAL INFORMATION:

Product Data

Hydrostatic Resistance

ASTM D-751 Procedure B.

Passes

Adhesion to Repair Mortar FA and MP

360 PSI – Cohesive substrate failure

Elongation

ASTM D-638

562% to 738%

Moisture Vapor Transmission

ASTM E-96 .085 g/m²/24hours

Tensile Strength

ASTM D-638

Test Average 423 psi

Crack-Bridging

ASTM E-836 sec 5.7: No cracks – no rupture

Bacteria and Fungus Resistance

ASTM G-22

No Growth

Hydrostatic Resistance

ASTM D-751 Procedure B

Passes

Adhesion to Concrete

156 PSI

Permeability

ASTM E-96

0.012 perm/inches

Limitations

- Not recommended over expansion joints or seismic joints
- Can be direct bonded to interior concrete slabs in certain situations
- Non-Breathable. Not for use on slab on grade applications or over concrete exhibiting high moisture contents or high vapor transmission conditions.

Specification Assistance

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

Warranty

This product is warranted to meet uniform quality standards within conventional manufacturing tolerances. Since no control is exercised over product use, no warranty or guarantee, expressed or implied, can be made to such use. Seller's and manufacturer's obligation under this warranty is limited to reimbursement of the purchase price of the portion of the product proven to be defective. The user assumes all risks and liability resulting from the use of this product.

Additional product information, technical bulletins and specifications are available online at www.bomanite.com or through one of our Bomanite Franchise Partners. For additional assistance with specifications or technical issues, contact Bomanite Corporation.