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Architectural Concrete Solutions

BOMANITE THIN-SET II

Technical Bulletin

Bomanite Thin-Set II is a polymer modified, cementitious topping that can produce a decorative paving finish similar to Bomanite and Bomacron imprinted concrete. Bomanite Thin-Set II can be installed at a 1/4- to 5/8-inch thickness and can be used for interior or exterior residential, commercial, municipal and industrial construction. Bomanite Thin-Set II has a high compressive strength and, with regular maintenance, can be left exposed to both foot and vehicular traffic. The system consists of a wet primer application, pigmented latex modified mortar, Bomanite Liquid Release and Bomanite protective sealers. Bomanite Thin-Set II is compatible with Bomanite Chemical Stain, Bomanite Topical Stain and Bomanite Con-Color. Bomanite Thin-Set II can be installed over Bomanite Waterproof Membrane systems to provide a composition waterproof and crack-resistant decorative floor finish. If needed, Bomanite Thin-Set II allows for the delay of the decorative flooring installation until after the initial heavy construction is complete. This eliminates the need to invest in protection of the surface and greatly reduces damage from construction related traffic. Bomanite Thin-Set II, which is able to be installed quickly, can be planned for installation at roughly the same time that all other floor coverings and finishes are placed in a structure. Bomanite Thin-Set II can be applied over concrete, ceramic tile, terrazzo, quarry tile and almost any other structurally sound, tightly adhered and properly prepared substrate. Keep in mind that a high moisture vapor transmission condition can affect stain coloration, sealer characteristics and long-term bond strength. Testing of moisture drive and assessment of the concrete integrity prior to the installation of Bomanite Thin-Set II is a necessity.

FEATURES AND BENEFITS:

- *Durable decorative flooring and paving system*
- *Available in standard and custom colors*
- *Relatively low maintenance cost*
- *Interior and exterior applications*
- *Polymer-modified: self-curing and superior adhesion*
- *High compressive strength*
- *Provides for fast-track construction option*

GENERAL INFORMATION:

Colors

White and gray base. Bomanite Thin-Set II can be tinted using a dry powder Bomanite Thin-Set II Tint Pack. Refer to the Bomanite Standard Color Chart for color selections. Custom colors are also available.

Coverage Rates

NOTE: Coverage/thickness data shown are approximate and given for estimating purposes only. Actual job site coverage may vary according to substrate conditions, surface profile, thickness applied and application methods used. One gallon of Bomanite Thin-Set II liquid mixed with one 47-pound bag of Bomanite Thin-Set II powder will yield 22 square feet of coverage at 1/4-inch thick or 16 square feet at 3/8-inch thick.

Product Data

Compressive Strength.....	ASTM C-109 (2" x 2" cubes): 4,219 psi
Indention Characteristics.....	(Steadily Applied Load) MIL-D-134, Para. 4.7.4.2.1 (2,000 lbs. on 1" steel ram imposed for 30 min.): 2.26%
Adhesion.....	MIL-D-3134, Para. 4.7.14 (Shear from steel plate after 96 hours): 305 psi
Water Absorption.....	MIL-D-3134 3.41%
Tensile Strength.....	ASTM C-190 925 psi
Flexural Strength	ASTM C-580 2,415 psi
Impact Resistance.....	(Gardner Impact Tester) No chipping, cracking, or delamination and not more than 0.014"

Sealers

For suggested exterior or 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

This will vary depending on a number of factors including volume and intensity of traffic, UV exposure, geographic location and weather conditions. For instance, interior applications will require a different routine maintenance program than exterior products. 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 applicable Bomanite Maintenance Schedules for appropriate maintenance procedures.

Limitations

Concrete substrate cracks can reflect through finished application. As such, Thin-Set II cannot be installed over moving cracks, working joints or expansion joints.

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.