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Architectural Concrete Solutions

BOMANITE THIN-SET I

Technical Bulletin

Bomanite Thin-Set I is a one-component polymer modified, cementitious topping that can produce a decorative paving finish similar to Bomanite and Bomacron imprinted concrete. Bomanite Thin-Set I 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 I can be left exposed to both foot and vehicular traffic.

The Bomanite Thin-Set I system consists of a wet primer application, pigmented polymer modified mortar, Bomanite Liquid Release and Bomanite protective sealers. Bomanite Thin-Set I is compatible with Bomanite Chemical Stain, Bomanite Topical Stain and Bomanite Con-Color. Bomanite Thin-Set I can be installed over Bomanite Waterproof Membrane systems to provide a composition waterproof and crack-resistant decorative floor finish. If needed, Bomanite Thin-Set I 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 I, 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 I 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 I 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*
- *High compressive strength*
- *Zero VOC Product*
- *Provides for fast-track construction option*
- *Polymer-modified: self-curing and superior adhesion*

GENERAL INFORMATION:

Colors

White and gray base. Bomanite Thin-Set I can be tinted using a dry powder Bomanite Thin-Set I 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.

Coverage Weight per Bag:

1 / 4 – inch = 24 Square Feet

1 / 2 – inch = 12 Square Feet

3 / 8 – inch = 16 Square Feet

5 / 9 – inch = 10 Square Feet

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
Compression Test.....	Outdoor 50#/1 gallon mix, 7-day cure: 3,300 psi 28-day cure: 3,900 psi Indoor 50#/1 gallon mix, 7-day cure: 2,800 psi 28-day cure: 3,900 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

- The substrate temperature should range from 65-80 °F. A warm substrate decreases the material's pot life and can cause mixes to be sticky. A cooler substrate will retard the cure and may cause a blush in some sealers. Never apply Bomanite Thin-Set I to substrates below 55 °F.
- Keep the unfinished flooring surface clean.
- Do not track dirt, grease or any other contaminants onto the unfinished flooring surface. Any contaminants could affect the aesthetics of the finished flooring.
- Good ventilation must be provided during application.
- This application is not designed to bridge cracks, working joints, dynamic cracks 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.