

Bomanite® TOPPING SYSTEMS

Thin-Set II Guideline Specification

SECTION 099726

CEMENTITIOUS COATINGS

PART I - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this section.

1.2 SUMMARY

- A. Work specified in this section includes all labor, materials, equipment and services necessary to complete the Bomanite Thin-Set II System, including surface preparation, cementitious toppings and clear topcoats.
- B. Related Sections include the following:
 - 1. Division 1 Section "Product Requirements" for submittals and substitutions.
 - 2. Division 3 Section "Cast-in Place Concrete" for concrete slabs.

1.3 DEFINITIONS

- A. Thin-Set II:
 - 1. A trowel applied cementitious topping modified with specialized resins applied in multiple layers to achieve a final thickness of approximately 5/16" - 3/4". The product is applied for decorative applications with the ultimate appearance to resemble slate, stone or other texture created through imprinting with polyurethane tools.

1.4 SUBMITTALS

- A. Product Requirements:
 - 1. Provide submittal information within 35 calendar days after the contractor has received the owner's notice to proceed.
- B. Product Data:
 - 1. Submit special concrete finishes manufacturer's specifications, test data and other data required for each type of manufactured material and product indicated.

2. Submit special concrete finishes technical bulletins listing manufacturer's name, product name, descriptive data, curing time and application requirements.
3. Submit special concrete finishes manufacturer's Material Safety Data Sheet (MSDS) and other safety requirements.

C. Material Certificates:

D. Field quality-control test and inspection reports.

1. Documentation by the concrete contractor or General Contractor of the surface preparation along with decisions on crack repair or joint placement prior to installation.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: The contractor for this work shall be a Bomanite Toppings Licensee and Certified Applicator approved by The Bomanite Company: (303) 369-1115.

1. Provide letter of certification from The Bomanite Company stating that installer is a certified applicator of special concrete finishes and is familiar with proper procedures/installation requirements required by the manufacturer.
2. Use an authorized Bomanite Toppings Licensee and adequate number of skilled workmen who are thoroughly trained and experienced in the necessary craft.
3. Applicator shall be familiar with the specified requirements and the methods needed for proper performance of work of this section.
4. Applicator shall be familiar with the previously approved mock-ups that demonstrated standard of workmanship.
5. Authorized installers limited to the following:
 - a. **Colorado Hardscapes**
8085 E. Harvard Ave
Denver, CO 80231
Tel: (303) 750-8200
Fax: (303) 750-8886

B. Manufacturer Qualifications: A firm experienced in the support and training of a national installer network and manufacturing products required/listed to complete the work.

C. Source Limitations: Obtain all materials required for the installation through The Bomanite Company or Bomanite approved vendors.

D. Mock-ups:

1. Apply finish to mock-ups constructed by concrete contractor, using each type of finish to demonstrate finished appearance and standard of workmanship.
 - a. Mock-up shall include entire system, including primers, toppings, decorative finishes and clear coatings.
 - b. Notify Architect seven days in advance of dates and time when mockups will be constructed.
 - c. Obtain from Architect approval of mock-ups before starting construction.

- d. If the Architect determines that the mock-ups do not meet requirements, General Contractor will demolish and remove them from the site and arrange to assemble more until approved.
- e. Maintain mock-ups during construction in an undisturbed condition as a standard for judging the completed work.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer labels indicating brand name and directions for storage, mixing with other components and application.
- B. Store materials to comply with manufacturer's written instructions to prevent deterioration from moisture or other detrimental effects.
- C. Dispense special concrete finish material from factory numbered and sealed containers. Maintain record of container numbers.

1.7 PROJECT CONDITIONS

- A. Environmental Limitations:
 - 1. Comply with manufacturer's written instructions for ambient temperature and other conditions affecting installation performance.
 - 2. The topping must be cured a minimum of 2 days or as directed by the manufacturer before foot trafficking can begin with an additional 2 days for vehicular traffic.

PART 2- PRODUCTS

2.1 MANUFACTURERS

- A. In other Part 2 articles where titles below introduce products, the following requirements apply to product selection:
 - 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, manufacturer listed. For other manufacturers to be considered, submit according to the specifications in "Product Requirements."
 - a. **Colorado Hardscapes**
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2.2 PERFORMANCE REQUIREMENTS

- A. The product is required to resist common pool chemicals.
- B. The product is required to have a compressive value greater than 4500 psi.

2.3 MATERIALS

- A. Bomanite Thin-Set II Powder and Liquid: Color selected from manufacturer's standard color charts or from samples provided.
- B. Bomanite XP Primer: Water based epoxy primer for use under the topping products to enhance bond to the prepared substrate.

- C. Bomanite Repair Mortar: Polymer modified cementitious repair product for correcting elevations between topping systems, transitions at doors or general-purpose patching requirements under the topping products.
- D. Bomanite Florthane WB: Water based clear urethane coating with superior chemical resistance designed to protect and enhance the topping products.
 - 1. Available in Matte and Gloss Finish
- E. Bomanite Extra Sure Trac: A polymer bead designed to improve the Co-Efficient of Friction of clear topcoat coatings to in areas subject to water exposure.
- F. No substitutions or alternates to the above will be accepted.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Examine the areas and conditions where the Bomanite Topping System is to be installed and notify the Architect and General Contractor of conditions detrimental to the proper and timely completion of work. Do not proceed with the work until the General Contractor in a manner acceptable to both the Architect and Bomanite installer has corrected all unsatisfactory conditions.
- B. Verify that the slab meets a minimum of 3000 psi in compressive strength.

3.2 PREPARATION

- A. Shot blast, scarify or diamond grind the concrete surface prior to installing the Bomanite Topping System. Meet an ICRI CSP 3 or greater.
- B. Verify that the substrate meets Project Conditions above.
- C. Layout all control joints or saw cuts required in the finished toppings prior to installation.
- D. Determine if there are any cracks or structural issues that need to be repaired or isolated prior to topping installation.
- E. Prior to topping installation, verify that the substrate or any repairs to the substrate are free of construction damage and contaminants.

3.3 INSTALLATION

- A. Construction Process:
 - 1. Apply the XP Primer in accordance to the Bomanite XP Primer Application Guidelines.
 - 2. Correct any elevations in accordance to the Bomanite Repair Mortar Application Guideline.
 - 3. Install the Thin-Set II in accordance with the Bomanite Application Guidelines.
 - 4. Proceed with any coloring applications and clear coating in accordance with the Bomanite Application Guidelines.

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5. Honor any and all control joints, expansion joints or isolation joints in the substrate by cutting and filling with an appropriate polyurethane sealant.

3.4 PROTECTION

- A. General: Protect finished work from traffic until fully cured in accordance with manufacturer's recommendations.

END OF SECTION 033000