

Bomanite® Custom Polishing Systems

Modena by Bomanite Guideline Specification

SECTION 03920

INTERIOR CONCRETE RESURFACING

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. All labor, materials, equipment and services necessary to complete Bomanite Modena System including primer, cementitious topping, field added aggregates, liquid hardeners and stain resistant finish.

1.2 RELATED SECTIONS

- A. Related Work:
 - 1. Section 09620 Specialty Flooring
 - 3. Section 03300 Concrete

1.3 SUBMITTALS

- A. Comply with pertinent provisions of Section 01600 – 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 giving manufacturer's name, product name, and product line number for the specified material proposed to be provided under this section.
 - 3. Submit special concrete finishes technical data sheet giving descriptive data, curing time, and application requirements.
 - 4. Submit special concrete finishes manufacturer's Material Safety Data Sheet (MSDS) and other safety requirements.

1.4 QUALITY ASSURANCE

- A. The contractor for this work shall be a licensed Bomanite Custom Polishing Licensee Certified Applicator trained and equipped by:
 - The Bomanite Company
 - 8789 Auburn Folsom Road
 - Granite Bay, CA 95746
 - Tel: (303) 369-1115
 - Fax: (303) 291-0282
 - Web site: www.bomanite.com
 - E-mail: info@bomanite.com

8085 E. Harvard Ave.

Denver, CO 80231

P: 303.750.8200

F: 303.750.8886

- B. The approved Bomanite project specific contractor is: **Colorado Hardscapes**
Contact Colorado Hardscapes for project specific information including but not limited to product thickness, process information, slab design considerations such as control jointing, floor flatness and finish specific to Modena.

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- C. Installer Qualifications:
1. Use an authorized Bomanite Custom Polishing Licensee and adequate number of skilled workmen who are thoroughly trained and experienced in the necessary craft
 2. Applicator shall be familiar with the specified requirements and the methods needed for proper performance of work of this section.
- D. Manufacturer's Certification:
1. Provide letter of certification from 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.
- E. Mock-ups:
1. Apply mock-ups of each type finish, to demonstrate typical joints, surface finish, color variation (if any), and standard of workmanship.
 - a. Build mock-ups approximately 100 square feet in the location indicated or if not indicated, as directed by the Architect or Owner Representative.
 - b. Notify Architect or Owner Representative seven days in advance of dates and times when mock-ups will be constructed.
 - c. Obtain from the Architect or Owner Representative approval of mock-ups before starting construction.
 - d. If the Architect or Owner Representative determines that mock-ups do not meet requirements, demolish and remove them from the site and cast others until mock-ups are approved.
 - e. Maintain mock-ups in an undisturbed condition during construction as a standard for judging the completed work.

1.5 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.

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1.6 PROJECT CONDITIONS

- A. Environmental limitations:
 - 1. Comply with manufacturer's written instructions for substrate temperature and moisture content, ambient temperature, humidity, ventilation, and other conditions affecting installation performance.
 - 2. Concrete must be cured a minimum of 28 days or as directed by the manufacturer before application of Bomanite Modena can begin.
- B. Close areas to traffic during and after floor application for time period recommended in writing by licensed installer.

PART 2- PRODUCTS

2.1 MANUFACTURERS MATERIALS

- A. Bomanite XP Primer: Water based epoxy primer
- B. Bomanite Modena Topping: cementitious topping
- C. Bomanite Stabilizer Pro: hardening/densifying agent
- D. Bomanite Vitrafinish: stain resist/densifying finish
- E. No substitutes will be considered or allowed

2.2 APPLICATION/SYSTEM

- A. Self-consolidating topping process: Pre-blended, cementitious, self-curing, abrasion-resistant, suitable as exposed wear layer; Bomanite Modena Topping; for over pre-treated and primed concrete; minimum thickness 3/8 inch or 1.5 times thickness of field added aggregates as detailed in the Bomanite Modena Application Guidelines.
- B. Honing and polishing process: Pre-mixed, water-based, proprietary silicate hardener/densifier applied to Bomanite Modena during the polishing process and subsequently treated with a stain resistant/densifying finish as detailed in the Bomanite Modena Application Guideline.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine the areas and conditions where polymerized cementitious flooring system is to be installed and notify the Architect and General Contractor of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected by the General Contractor in a manner acceptable to both the Architect and the Installer.
- B. Verify that concrete slab meets a minimum of 3000 psi of compressive strength. Consult American Concrete Institute ACI302.IR-89, Guide for Concrete Floor and Slab Construction requirements in Division 3 Section "Cast-In-Place Concrete," and Project Conditions.

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3.2 PROTECTION

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

END OF SECTION

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