

Bomanite[®]

Micro-Top XT Pedestrian Decking System Guideline Specification

DIVISION 03

CONCRETE

PART 1- 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 proprietary Bomanite Micro-Top XT Pedestrian Decking System including surface preparation, primers, cementitious topping, waterproof membrane, reinforcing fabric, and pigmented surface treatments.
- 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.
 - 3. Division 3 Section "Joint Sealers" Installation of caulking if required

1.3 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 Bomanite specifications, test data and other data required for each type of manufactured material and product indicated.
 - 2. Submit Bomanite Technical Bulletins listing product name, descriptive data, curing time and application requirements.
 - 3. Submit Bomanite Material Safety Data Sheet (MSDS) and other safety requirements.
- C. Field quality-control test and inspection reports
 - 1. Documentation by the Bomanite contractor of surface profile and correct drainage prior to installation.
 - 2. Moisture tests resulting in a reading of 4 lbs or greater per foot in a 24 hour period are unacceptable for this type of installation. Consult with the Bomanite installer or Bomanite Technical Services on an appropriate

system designed to suppress the moisture prior to installation.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: The contractor for this work shall be a Bomanite Toppings System Franchise Partner and Certified Applicator approved by Bomanite Corporation: (559) 673-2411.
1. Provide letter of certification from Bomanite Corporation stating that installer is a certified applicator of special concrete finishes and is familiar with proper procedures/installation requirements of the manufacturer.
 2. Use an authorized Bomanite Franchise Partner 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 Bomanite Toppings System installers limited to the following:
[Colorado Hardscapes](http://www.coloradohardscapes.com)
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.
[Colorado Hardscapes](http://www.coloradohardscapes.com)
8085 E. Harvard Ave
Denver, CO 80231
Tel: (303) 750-8200
Fax: (303) 750-8886
- C. Source Limitations:
1. Micro-Top XT Pedestrian Deck System related materials: Obtain each type of material of the same brand from one source from a single manufacturer.
 2. Do not interchange manufactured materials within the Micro-Top XT Pedestrian Deck System as all warranties whether expressed or implied will be null and void.
- D. Mock-ups:
1. Apply finish to mock-ups constructed by Bomanite Licensed Installer, using each type of finish to demonstrate finished appearance and standard of workmanship.
 - a. Mock-up shall include entire system, including surface preparation, primers, cementitious basecoat, fabric reinforced membrane, cementitious topcoat, expansion/isolation joints and surface treatments.
 - b. Notify Architect seven days in advance of dates and time when mock-ups 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.

1.5 DELIVERY, STORAGE AND HANDLING

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

1.6 PROJECT CONDITIONS

- A. Environmental Limitations:
 - 1. Comply with Bomanite written instructions for ambient temperature and other conditions affecting installation performance.
 - 2. Concrete must be cured a minimum of 28 days or as directed by the manufacturer before installation of Bomanite Micro-Top XT Pedestrian Deck System can begin.

1.7 PERFORMANCE REQUIREMENTS

- A. The product is required to retain water indefinitely provided no structural movement has compromised the system.
- B. The product is required to have a pigmented topcoat that can be reapplied as wear dictates.
- C. The product is required to have no reliance upon the topcoat for its water proof properties.
- D. The product is required to have a layer of protective cementitious coating over the membrane so as to protect it from incidental contact.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. In other Part 2 articles where titles below introduce products, the following requirements apply to product selection:

8085 E. Harvard Ave.

Denver, CO 80231

P: 303.750.8200

F: 303.750.8886

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering materials required to be incorporated into the work include, and are limited to, manufacturer listed.

- a. **Colorado Hardscapes**
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2.2 MATERIALS

- A. Bomanite XP Primer: Water-based epoxy designed to improve the bond strength of the Micro-Top XT Pedestrian Deck System to the prepared concrete slab.
- B. Bomanite Repair Mortar MP Regular Set: A cementitious topping comprised of powders in multiple gradations, styrene butadiene admixtures and other modifiers designed to be a highly durable and water resistant coating.
- C. Bomanite Waterproof Membrane: A single component styrene butadiene rubber coating designed to be water proof.
- D. Bomanite Micro-Top XT: A cementitious topping comprised of powders in multiple gradations, vinyl versatate admixtures and other modifiers designed to be a highly flexible coating.
- E. Bomanite Poly Fabric: A polypropylene fabric designed to reinforce cementitious coatings and elastomeric membranes.
- F. No substitutions or alternates to the above will be accepted.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Consult General Contractor, Structural Engineer, Architect and Concrete Contractor with Bomanite installer present prior to pouring the concrete slab to which the Micro-Top XT Pedestrian Decking System is to be applied to. Ensure complete understanding of substrate preparation, finishing, control joint placement, penetrations, mechanical bases, slope to drains etc.
- B. Examine slab prior to installation with Bomanite installer present for conditions affecting performance of the Micro-Top XT Pedestrian Decking System. Rectify conditions detrimental to timely and proper work . Do not proceed with installation of Micro-Top XT Pedestrian Decking System until unsatisfactory conditions are corrected.

3.2 SURFACE PREPARATION

- A. Mechanically profile the concrete slab with planetary head grinders, hand held grinders, shotblasting equipment or high pressure water cleaning equipment to ICRI CSP 1 or greater.

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3.3 INSTALLATION

- A. Apply the Micro-Top XT Pedestrian Decking System according to the manufacturers proprietary internal application procedures including epoxy primer, cementitious basecoat, fabric reinforced membrane, cementitious topcoat and pigmented sealer.
- B. Coat perimeter of decks a minimum of 4" up the vertical faces unless otherwise specified. Use Sonnebron NP1 or equal non-sag joint sealant to provide slant cant shape at base of vertical walls prior to installing the Bomanite Waterproof Membrane.

3.4 JOINTING

- A. Isolation and Expansion Joint Caulking: Install isolation joint caulking to be installed under Section 07900 – Joint Sealers after the Micro-Top XT Pedestrian Decking System installation is complete. Use a two component polyurethane such as Sonneborn NP2 or equal in a color complimentary to the Micro-Top XT Pedestrian Decking System color.

3.5 PROTECTION

- A. General Contractor's responsibility to provide and install protection according to Bomanite installer's recommendations. Protection of the finished surface is to be maintained by the General Contractor until substantial completion of the project is met and the floor can go into service.

END OF SECTION