



Micro-Top with Epo-Clear II Topcoat Guideline Specification

DIVISION 09

FINISHES

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 System including surface preparation, primers, cementitious topping, topically applied stain, jointing and surface treatments.
- B. Related Sections include the following:
 - 1. Division 1 Section "Product Requirements" for submittals and substitutions.
 - 2. Division 2 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 the surface profile and moisture test results prior to Micro-Top 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~~ Franchise Partner 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~~ Toppings System installers limited to the following:
 - a. www.bomanite.com/locate/

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.

1. Bomanite Corporation 559-673-2411 – no equal

C. Source Limitations:

1. Micro-Top and 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 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 body and finish coats, color(s), decorative accents or graphics (if necessary), honored control joints, 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 can begin.

1.7 PERFORMANCE REQUIREMENTS

- A. The product is required to bear daily foot traffic without loss of topically applied colors or graphics.
- B. The product is required to have an epoxy topcoat exceeding 10,000 PSI of compressive strength when used in its supplied form.
- C. The product is required to have more predictable color and finished appearance than that of typical concrete.

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 materials decorative in nature required to be incorporated into the work include, and are limited to, manufacturer listed.
 - a. Bomanite Corporation (559) 673-2411 www.bomanite.com

2.2 MATERIALS

- A. Bomanite XP Primer: Water-based epoxy designed to improve the bond strength of Micro-Ttop to the prepared concrete slab.
- B. Bomanite Micro-Ttop: A cementitious topping comprised of powders in multiple gradations, acrylic admixtures, pigments and other modifiers designed to be a highly decorative concrete treatment.
- C. Bomanite Chemical Stain: A reactive stain designed to impart color to cementitious products through the development of precipitated color. [Colors to be selected from Bomanite Chemical Stain Color Chart and are as indicated on drawings.](#)
- ED. Bomanite Epo-Clear II: A topically applied 100% solids, water clear epoxy designed to be applied to cementitious products to improve abrasion and stain resistance.
- DE. Bomanite Interior Floor Finish: Topically applied maintenance treatment designed to provide a sacrificial barrier over sealers and coatings that is applied periodically as part of an ongoing maintenance program.
- EE. 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-Ttop is to be applied to. Ensure complete understanding of substrate preparation, vapor barrier installation, reinforcement, finishing, control joint placement, penetrations, floor flatness etc.
- B. Examine slab prior to Micro-Ttop installation with Bomanite Installer present for conditions affecting performance of the Micro-Ttop finish. Rectify conditions detrimental to timely and proper work. Do not proceed with installation of Micro-Ttop system until unsatisfactory conditions are corrected.
- C. Repair of defective portions of concrete slab due to improper installation is the concrete contractors responsibility under the guidance and approval of the Bomanite Installer. All repairs must meet the satisfaction of the architect.

3.2 SURFACE PREPARATION

- A. Mechanically profile the concrete slab with planetary head grinders, hand held grinders or shot blasting equipment to and ICRI CSP 2 or greater.

- B. Treat all cracks with a penetrating polyurea or equal two-component product in a manner consistent with the repair product manufacturer's guidelines. Grind the repair flush to the concrete slab prior to the Micro-Top installation.
- C. Any deficiencies greater than 1/16" in depth such as shot blast tracks, spalls or holes need to be filled and flush ground with an appropriate Bomanite repair product such as Bomanite Repair Mortar FA Fast Set.

3.3 INSTALLATION

- A. Apply the Micro-Top System according to the manufacturer's proprietary internal application procedures.

3.4 JOINTING

A. Construction and Contraction Joints:

1. Sawcut construction and contraction joints through the Micro-Top in locations that mirror those in the base slab.
2. Perform jointing with a circular saw – walk behind saws are not acceptable unless of the early entry type to maintain required straightness standards.
3. Joint Width: Per drawings and approved samples. Do not exceed 1/4-inch in width.
4. Sawcut joints in a straight line with no overcutting. Use a hand tool to sawcut up to vertical edges such as walls, steps, curbs and columns.

B. Isolation Joint Caulking:

1. Install isolation joint caulking to be installed under Section 07900 – Joint Sealers.

3.7 SEALING

- A. Coat the Micro-Top with Bomanite Epo-Clear II as per manufacturer's instructions with a single uniform coat at a minimum thickness of 10 mils dry film thickness or 160 square feet per gallon wet application.
- B. After Bomanite Epo-Clear II has cured thoroughly (12-18 hours minimum) Bomanite Interior Floor Finish is applied as per manufacturer's instructions in a two to six coat application procedure with high speed buffing performed every two coats.

3.8 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 033000

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