

# Bomanite® Custom Polishing System

## Suggested Guideline Specification

### PART 1 GENERAL

#### 1.01 SUMMARY

- A. This section includes one or more of the following:
1. Bomanite Integral Color
  2. Bomanite Color Hardener
  3. Bomanite Chemical Stain
  4. Bomanite Self Leveler
  5. Bomanite Stabilizer Pro
  6. Bomanite Sure Cure
- B. Related Work:
1. Section 03360 Special Concrete Floor Finishes
  2. Section 03300 Cast-In-Place Concrete
  3. Section 09639 Concrete Hardening/Sealing

#### 1.02 REFERENCES

- A. American Society for Testing and Materials:
1. ASTM-C779, Standard Test Method for Abrasion Resistance of Horizontal Concrete Surfaces
  2. ASTM C805, Impact Strength
  3. ASTM G23-81, Ultraviolet Light & Water Spray
  4. ASTM 1028, Co-Efficient of Friction
- B. American Concrete Institute:
1. ACI 302. 1R-89, Guide for Concrete Floor and Slab Construction
- C. Other Test:
1. Reflectivity
- D. The contractor for this work shall be an authorized Bomanite Custom Polishing Franchise Partner trained and equipped by:
- Bomanite Corporation  
P.O. Box 599  
Madera, CA 93639-0599  
Tel: (559) 673-2411  
Fax: (559) 673-8246  
Web site: www.bomanite.com  
E-mail: info@bomanite.com

#### 1.03 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.

#### 1.04 QUALITY ASSURANCE

- A. Installer Qualifications:
1. Use an authorized Bomanite Custom Polishing Franchise Partner 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.
- B. Manufacturer's Certification:
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 required by the manufacturer.

#### C. 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 during construction in an undisturbed condition as a standard for judging the completed work.

#### D. Protection:

1. No satisfactory chemical or cleaning procedure is available to remove petroleum stains from the concrete surface. Prevention is therefore essential.
  - a. All hydraulic powered equipment must be diapered to avoid staining of the concrete.
  - b. No trade will park vehicles on the inside slab. If necessary to complete their scope of work, drop cloths will be placed under vehicles at all times.
  - c. No pipe cutting machine will be used on the inside floor slab.
  - d. Steel will not be placed on interior slab to avoid rust staining.

#### E. Pre-Installation Conference:

1. Conduct conference at project site to comply with requirements in Division 1 Section "Project Management and Coordination."

#### 1.05 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.

#### 1.06 PROJECT CONDITIONS

##### A. Environmental limitations:

1. Comply with manufacturer's written instructions for substrate temperature and moisture content, ambient temperature and humidity, ventilation, and other conditions affecting topping performance.
  - a. Recommended concrete floor flatness of at least 50, preferably 75, where possible.
  - b. Recommended concrete floor levelness of at least 30, where possible.
  - c. Concrete must be first cured with an application of Bomanite Sure Cure. Bomanite Sure Cure may be installed by the concrete contractor pouring the slab but must be under the supervision or guidance of an authorized Bomanite Custom Polishing Franchise Partner.
  - d. Concrete must be cured a minimum of 28 days or as directed by the manufacturer before application of Bomanite Custom Polishing can begin.
  - e. Application of Bomanite Custom Polishing shall take place 10 days prior to installation of equipment and substantial completion, thus providing a complete, uninhibited concrete slab for application.

- B. Close areas to traffic during and after floor application for time period recommended in writing by manufacturer.

# Bomanite® Custom Polishing System

## Suggested Guideline Specification

### PART 2 PRODUCTS

#### 2.01 MATERIALS AND MANUFACTURERS

Select between the following systems in the Bomanite Custom Polishing System. Consult an authorized Bomanite Custom Polishing Franchise Partner or Bomanite Corporation for additional options:

- A. Renaissance by Bomanite™, Belcolore by Bomanite™, Patène Teres by Bomanite™, Modena by Bomanite™ and/or VitraFlor by Bomanite™
  - 1. Bomanite Chemical Stain
  - 2. Bomanite Color Hardener
  - 3. Bomanite Integral Color
  - 4. Bomanite Self Leveler
- B. HARDENING/SEALING AGENT
  - 1. Bomanite Stabilizer Pro.
  - 2. No substitutes will be considered or allowed.
    - a. Performance Criteria:
      - i. Abrasion Resistance: ASTM C779 – Up to 400% increase in abrasion resistance.
      - ii. Impact Strength: ASTM C805 – 21% increase impact strength.
      - iii. Ultra Violet Light and Water Spray: ASTM G23-81 – No adverse effect to ultra violet and water spray.
      - iv. Co-efficient of Friction: ASTM 1028 – all levels of finish (up to 800 grit) exceed OSHA and ADA recommendations.
      - v. Reflectivity: 30% increase in reflectivity.

#### 2.02 RELATED MATERIALS

- A. Neutralizing Agent:
  - 1. Tri-sodium Phosphate
  - 2. Ammonia
- B. Water:
  - 1. Potable

### PART 3 EXECUTION

#### 3.01 SURFACE CONDITIONS

- A. Examine substrate, with installer present, for conditions affecting performance of finish. Correct conditions detrimental to timely and proper work. Do not proceed until unsatisfactory conditions are corrected.
- B. Verify that base slab meets finish and surface profile requirements in Division 3 Section "Cast-In-Place Concrete," and Project Conditions above.
- C. Prior to application, verify that floor surfaces are free of construction latents.

#### 3.02 APPLICATION

- A. Select option and apply concrete floor finish in accordance with manufacturer's proprietary, internal application procedures.
  - 1. Renaissance by Bomanite
  - 2. Belcolore by Bomanite
  - 3. Patène Teres by Bomanite
  - 4. Modena by Bomanite
  - 5. VitraFlor by Bomanite
- B. Sealing, Hardening and Polishing of Concrete Surface.
  - 1. Concrete must be in place a minimum of 28 days or as directed by the manufacturer before application can begin.
  - 2. Application is to take place at least 10 days prior to racking and other in-store accessory installation, thus providing a complete, uninhibited concrete slab for application
  - 3. Only a certified applicator shall apply Bomanite Stabilizer Pro. Applicable procedures must be followed as recommended by the product manufacturer and as required to match approved test sample and achieve waterproofing, hardening, dust-proofing, and abrasion resistance of the surface while imparting a sheen.
  - 4. Polish to required sheen levels.
  - 5. (Optional) Apply special concrete sealer finish in accordance with manufacturer's instructions.

#### 3.03 WORKMANSHIP AND CLEANING

- A. The premises shall be kept clean and free of debris at all times.
- B. Remove spatter from adjoining surfaces, as necessary.
- C. Repair damages to surface caused by cleaning operations.
- D. Remove debris from jobsite
  - 1. Dispose of materials in separate, closed containers in accordance with local regulations.

#### 3.04 PROTECTION

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

#### CODES, CERTIFICATION

All materials manufactured by Bomanite Corporation are warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over their use, no warranty, expressed or implied, is made as to the effects of such use. Bomanite Corporation's obligation under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective.

Please contact your local Custom Polishing Franchise Partner for available warranties on workmanship. Bomanite Corporation makes no warranty, expressed or implied, as to the quality of the workmanship by local Bomanite Custom Polishing Franchise Partners.



## International Society

OVER 225 FRANCHISE PARTNERS WORLDWIDE

The Bomanite International Society of Franchise Partners is a worldwide network of specially trained and equipped professionals. Through constant exchange of new ideas, re-education and development programs, members of the Bomanite International Society continue to increase already high standards of quality and service.

The activities of the Bomanite International Society are coordinated by Bomanite Corporation. The Corporation also provides services and technical assistance to its members, and to architects, designers and engineers specifying Bomanite products.

For more information, including a list of members of the Bomanite International Society, contact:

Bomanite Corporation  
P.O. Box 599  
Madera, California 93639-0599  
Tel: (559) 673-2411  
Fax: (559) 673-8246  
Web site: [www.bomanite.com](http://www.bomanite.com)

©Copyright 2005 Bomanite Corporation. Bomanite® is a registered trademark with the U.S. Patent Office and other countries. Renaissance by Bomanite™, Belcolore by Bomanite™, Patène Teres by Bomanite™, and Modena by Bomanite™ are trademarks of Bomanite Corporation. VitraFlor™ is a trademark of Bomanite Corporation with formal registration pending. Printed in USA 2.5M505