

Section 042510 – UNIT “Masonry Staining”

Part 1 – General

1.1 Section Includes

A. This section includes brush-applied Proven Masonry Stain applied to porous surfaces including the following:

1. Clay Masonry Units
2. Block
3. Manufactured Stone
4. Natural Stone
5. Mortar
6. Pre-cast Concrete

1.2 Related Sections

A. Related Sections include the following:

1. Division 4 Section “Masonry Restoration and Cleaning”
 - a. Unit Masonry Section 04-20-00

1.3 Submittals

A. Product Data: For each type of stain indicated:

1. Manufacturer’s Information: Manufacturer’s technical information, and if needed, instructions for handling and storing masonry stain.

B. Qualification Data: For Applicator

C. Benchmark Samples (mockups): Provide up to five (5) color enhanced loose units that represent the over-all color range to determine closest approved sample matching to existing masonry. A field sample can be created on a 10 sq. ft. area to be determined by the owner or the architect on the actual surface of the building to be stained.

D. Submit 10 jobs over 15 years

- a. The date on which the work was completed
- b. The precise location of the job including description of the structure or portion of the structure stained, street address, city, state and zip code
- c. Name of Product used
- d. Before and After Pictures

1.4 Quality Assurance

A. Manufacturer’s Qualifications: Minimum 20 years’ experience and successful in-service performance in applying a Ceramic Based Proven Masonry Stain.

B. Applicator Qualifications: A firm experienced in applying a Ceramic Based Proven Masonry Stain, design and extent to those indicated for this project. Whose company has resulted in applications with a record of successful in-service performance that exceeds 20 years.

1.5 Project Conditions

A. Temperature Limitations: Apply Stains only when temperatures of surfaces to be stained and the surrounding air are between 45 degrees F (7 degrees C) and 100 degrees F (32 degrees C).

B. Weather Limitations: Do not apply stain in snow, rain, dense fog or mist; when the relative humidity exceeds 95%, also do not apply to damp or wet surfaces.

1. Allow wet surfaces to dry thoroughly and attain temperature and conditions specified before starting or continuing with application.

Part 2 – Products

2.1 Manufacturer

- A. Masonry Cosmetics, Inc. 1625 Miami St, South Bend, IN 46613. Toll free: 888-698-8705, Tel: 574-234-1812, Fax: 574-234-2240, info@masonrycosmetics.com, masonrycosmetics.com, architecturalmasonrystaining.com
- B. Substitutions: Not permitted.

2.2 Installer

- A. Installer's Name
 1. Masonry Cosmetics, Inc. 1625 Miami St, South Bend, IN 46613. Tel: 574-234-1812, Fax: 574-234-2240, masonrycosmetics.com
 2. Other approved masonry staining contractor that uses an Ceramic Based Proven Masonry Stain.

2.3 Unit Masonry Stain Materials, General

- A. Materials: (basis of design): Ceramic based stain shall contain a colored “talcum powder” consistency (80-100 mesh) pigment, identical to natural pigments used in brick manufacturing, a proprietary bonding chemical and water. The water shall act as a carrying agent to feed the pigment and bonding chemical into the pore structure of the masonry units. The bonding chemical changes from a liquid to a solid state during and after the drying process.
- B. Materials once applied should not leave a visible gloss, sheen or film on masonry unit.
- C. VOC Content is to be very low and have an estimated maximum value of 0.01 g/g.

2.4 Products Not Permitted for Use:

- A. Water repellent masonry stains
- B. Acrylic paint or stains with Acrylic in it
- C. Hydrous, multiple polymer formulations of resin solids
- D. Semi-transparent stains
- E. Opaque Stains
- F. Sealers

Part 3 – Execution

3.1 Preparation

- A. General: Remove hardware, machined surfaces, lighting fixtures and similar items already installed that are not being stained. If removal is impractical or impossible because of size and weight of the item, provide surface- applied protection before surface preparation and staining.
 1. After completing staining operations, reinstall items removed using workers skilled in trades involved.
- B. Surface Preparation: Clean and prepare surfaces to be stained according to manufacturer's written instructions for each particular substrate condition and as specified.
 1. Remove surface dirt, oil or grease by washing with a detergent solution recommended by masonry manufacturer; rinse thoroughly with clean water and allow to dry.

2. Walls will need to be free of any acid or cleaning solution residue prior to any staining. Keeping the PH level on the wall as close to neutral as possible.
3. Ensure structurally sound surfaces that are dry, clean and free of the following: dirt, moisture, loose particles, oil, grease, asphalt, tar, paint, wax, rust, waterproofing, curing and parting compounds and other foreign matter.

3.2 Application

- A. Mixing: Mix and prepare stains according to the manufacturer's written instructions. Stir stain thoroughly before applying and frequently during application to maintain color consistency.
 1. Maintain containers used in mixing and application in a clean condition, free of foreign materials and residue.
 2. Stir mixture before application to insure all materials stay suspended. Stir as required during application.
- C. Minimum Application Rate: Apply stain to manufacturer's recommended required rate, measured by bricks stained per brush, to ensure proper penetration. Apply aqueous slurry (Proven Masonry Stain) with brush individually to each masonry unit, maintaining the integrity of the mortar (by artistic means).
 1. Do not apply stain on surfaces that are not sufficiently dry.
If succeeding application is needed, ensure that the surface is dry before re-applying.
 2. Apply all stain with a 100% polyester brush by hand to provide a uniform blending of color to the masonry wall.
 3. No spraying or rolling of materials allowed.

3.3 Field Quality Control

- A. Architect/Owner shall review and approve "artistic" application of stain by Contractor in a test area, mock-up panel or loose samples, and as accepted for approved benchmark samples.

3.4 Cleaning

- A. Cleanup: At the end of each work day, remove empty cans, rags, rubbish and other discarded materials from the project site.
 1. After completing staining, clean window glass and other surfaces. Remove splattered stain by proper methods without scratching or damaging adjacent finished surfaces.
 2. Dispose of excess materials according to state, federal and local governmental regulations.

3.5 Protection

- A. Protect work of other trades as necessary, whether being stained or not, against damage from staining. Correct damage by cleaning, repairing and re-staining as approved by architect.

End of Section 042510