

Protective Coatings

**Section 09800 or 09 97 23
Mineral Silicate Stain**

M3P Stain and Primex

PART I: GENERAL

1.01 DESCRIPTION

Provide labor, materials, equipment and supervision necessary to complete the application of product to the existing substrate.

1.02 QUALITY ASSURANCE

Products shall be installed by a trained applicator with a minimum of five years experience and meet the requirements of the specifier.

1.03 SUBMITTALS

- A. Manufacturer's current product data bulletin.
- B. The trained applicator shall prepare a test panel of the repair installed on the actual building as a submittal for approval of proper application and adhesion.
- C. The trained applicator shall submit to the specifier a list of five projects that he has completed within the last five years, exhibiting the applicator's skills. The list shall include project name, location and description of work and completion date.

1.04 PRODUCT DELIVERY, STORAGE & HANDLING

- A. Deliver all products and all accessories in original labeled, sealed, and undamaged containers or bundles.
- B. Store all products in accordance with manufacturer's printed instructions.
- C. Handle products in accordance with manufacturer's printed instructions.

1.05 JOB CONDITIONS

All products shall be applied at substrate and ambient temperatures of 45°F or above. A minimum temperature of 45°F shall be maintained 24 hours after completion of work. Protect products from weather and other damage for a period of 24 hours after installation. Do not apply products to frozen surfaces.

1.06 COORDINATION & SCHEDULING

The work requires close coordination with related sections and trades.

PART II: PRODUCTS

2.01 MANUFACTURERS

The following manufacturers are approved for the project.

Conproco Corporation

2.02 MATERIALS

- A. M3P Stain: A completely inorganic mineral silicate semi-transparent stain that provides long-term protection and enhanced aesthetics of structures.
- B. Color: _____

2.03 PERFORMANCE CHARACTERISTICS

General Physical Properties: The products shall meet or exceed the following performance standards:

M3P Stain:

Physical State & Appearance		Thick liquid emulsion, natural
Base		Aqueous
pH		11.2
Percent solids by weight		23%
Viscosity	ASTM D562	54 - 58 KU – paint paddle
Density of liquid coatings	ASTM D1475	9.4 lbs./gal.
Drying time		1 hour @ 65°F – dry to touch
Fungus resistance	Fed. Spec. TT-P-19D	Pass – no growth
Accelerated weathering – QUV	ASTM G154	2000 hours – UV-B cycled with condensation- no effect
Water penetration and leakage	ASTM E514	100% reduction
Heat stability	ASTM C932	Pass – 2 weeks @ 120°F

Primex:

Physical State & Appearance		White-milky liquid
Base		Aqueous
pH		11.2
Percent solids by weight		9.7%
Viscosity	ASTM D562	26 KU – paint paddle
Density of liquid coatings	ASTM D1475	9.1 lbs./gal.

PART III: EXECUTION

3.01 GENERAL

- A. Installation shall be performed strictly in accordance with manufacturer’s current product data bulletin.
- B. Examine substrates and conditions under which materials will be installed. Do not proceed with installation until unsatisfactory conditions are corrected.
- C. Coordinate installation with adjacent work to ensure proper sequence of construction. Protect adjacent areas and landscaping from contact due to mixing, handling, and application of materials.

3.02 SURFACE PREPARATION

- A. Prior to application of products, inspect the substrate for proper cleaning and treatment of structural cracks, texture differences, damage, etc. Work shall not proceed until unsatisfactory conditions are corrected.
- B. All substrates must be sound and free from loose debris, oils, paints, sealers, form treatments or any substances that would interfere with proper penetration.
- C. Typical preparation method is high pressure water blasting. Chemical cleaners may be used to remove stains and surface contaminants. If chemical cleaners are used, the surface must be neutralized prior to application of M3P Stain and Primex.
- D. Allow surface to dry completely. New concrete must be cured 7 days before application. A dry surface is necessary to allow maximum penetration.

- E. Adjacent surfaces should be protected from spatter or over spray (use masking tape and polyethylene film).
- F. Do not apply M3P Stain to horizontal surfaces.

3.03 PRIMING

- A. Apply Primex (priming treatment) with low-pressure spray, roller or brush. Coverage will vary with the absorption rate of the substrate.
- B. Allow 12 hours for Primex to react with the substrate before applying subsequent treatments.

3.04 MIXING

- A. No additives of any kind shall be added to any of the products.
- B. Mix until homogeneous. Do not use high-speed mixers or over mix as this will entrain excess air.

3.05 APPLICATION

- A. Apply M3P Stain with roller, brush or spray. One application is usually sufficient when the substrate has been treated with Primex.
- B. Allow 12 hours curing between applications.
- C. Substrates with greater porosity and texture may require a second application.
- D. A test application is strongly recommended to determine coverage and final appearance.
- E. Protect all surfaces against wet or damp weather conditions for at least 24 hours after application.
- F. In most cases M3P Stain will be applied without dilution. However, the opacity of M3P Stain can be altered to meet the aesthetic requirements of the project by adding Primex up to 1 part M3P Stain to 3 parts Primex.

3.06 CURING

Protect from moisture for 24 hours.

3.07 JOB SITE CLEANUP

- A. Material left over at the job site by the approved applicator shall be removed.
- B. Clean tools, equipment and adjacent areas with soap and water before material dries. M3P Stain and Primex are highly alkaline.
- C. Clean all metal and glass surfaces immediately to prevent permanent discoloration.
- D. Any foreign material resulting from the work of the approved applicator shall be removed.

*****END OF SECTION*****



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