

# M3P Stain

**Spray, roller or brush applied, semi-transparent mineral silicate paint.**

**WHERE TO USE**  
**Long term protection and enhanced aesthetics of concrete, masonry and stone. Used to blend substrate color variations to be more uniform.**

## PERFORMANCE CHARACTERISTICS\*

### Anti-carbonation

- Reacts with calcium hydroxide at surface, mitigating carbonation to depth of penetration.

### Water repellent

- Siloxane component provides long term protection from water and water borne contaminants.

### Non-film forming

- Will not peel, blister or flake.

### Breathability

- 97% vapor permeable.

### Stable

- Unaffected by UV.  
Fire resistant.

### Non-fade

- Unique iron oxide pigment system resists fading.

### Environmentally friendly

- Water based, low odor, low VOC.

### Ease of application

- Single component, stir and apply.

### Extensive color spectrum

- 34 standard colors plus *Matrix* colors and custom matching.

\**Primex* is a non-pigmented version of *M3P Stain*. The physical and performance characteristics are identical with the exception of color.

## SURFACE PREPARATION

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper adhesion.
- Prepare surface to be sandpaper-like texture (CSP 3) by mechanical abrasion or water blasting. Refer to ICRI Surface Preparation Guide 03732 for information about Concrete Surface Profile (CSP).
- Surface must be dry and frost free.
- Allow surface to dry completely.
- New concrete must cure at least 14 days before application.

## PRIMING

- Apply a uniform application of *Primex*.
- For best results spray apply beginning at the bottom of the structure and work to the top.
- Allow to react for 12 hours before applying *M3P Stain*.

## MIXING

- Stir or mechanically mix using a low speed drill (400 - 600) until homogenous.
- Mix pails from different batches when an entire surface is visible.

## APPLICATION

- Apply a test sample to determine suitability. Ensure by visual inspection that *Primex* and *M3P Stain* have penetrated the substrate. A white film on the surface after either material reacts – 12 hours indicates substrate is either too dense for proper penetration or a previous treatment such as a water repellent has been applied.
- Substrate temperature must be above 45°F.
- Ambient temperature must be above 45°F for the entire curing period.
- For roller applications use a 3/8 - 1/2 inch synthetic nap roller.
- For spray applications use an airless sprayer with a 0.017 - 0.021 tip. Refer to *Conproco Black Book*.
- Work to pre-determined break points in the structure.
- Maintain a wet edge.
- Allow *Primex* to react for 12 hours before applying *M3P* or *M3P Stain*.
- A second application of *M3P* or *M3P Stain* can be applied after the first is dry-to-touch.
- *Primex* may be added to *M3P Stain* if greater transparency is desired.

## CURING

- Protect from moisture for 24 hours.

## CLEAN UP

- Clean tools and equipment with water. Clean adjacent areas with water before material dries.

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## COVERAGE/YIELD

- *M3P Stain* – 150 - 250 ft.<sup>2</sup>/gal.
- *Primex* – 120 - 200 ft.<sup>2</sup>/gal.

## PRODUCT HANDLING

### Packaging

- 1 and 5 gallon containers.

### Shelf Life

- 18 months in unopened containers.

### Storage

- Protect from freezing.
- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature will reduce shelf life.

## LIMITATIONS

- Do not apply if precipitation is forecast within 24 hours of application.
- Do not apply in strong winds.
- Do not apply to horizontal surfaces.
- Do not apply to frozen surfaces.
- Do not apply if temperature of substrate is below 45°F.
- Do not apply if ambient temperature is below 45°F.

## HEALTH AND SAFETY

- Product is alkaline.
- Do not ingest.
- Avoid contact with skin and eyes.
- Refer to Material Safety Data Sheet (MSDS) for additional information.

## FIRST AID

- In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional. For respiratory problems, remove person to fresh air. If respiratory difficulty persists, contact a medical professional.

## DISPOSAL

- Dispose of material in accordance with local, state or federal regulations.

## TECHNICAL DATA

Physical state and 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
<b>Primex</b>		
Physical state and 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.

### FOR PROFESSIONAL USE ONLY

Conproco Corp. warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. October 2010.

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**conproco**<sup>®</sup>  
CORPORATION

17 PRODUCTION DRIVE, DOVER, NEW HAMPSHIRE 03820  
TELEPHONE 800.258.3500 • FAX 603.743.5744 • WEB ADDRESS [www.conproco.com](http://www.conproco.com)