

M3P-X

Mineral silicate diluent.

WHERE TO USE

Clear penetrating mineral silicate diluent used for creating semi-transparent finishes with M3P.

Performance Characteristics*

Anti-carbonation

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

Water repellent

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

Non-film forming

- n Will not peel, blister or flake.

Breathability

- n 97% vapor permeable.

Stable

- n Unaffected by UV.
- n Fire resistant.

Environmentally friendly

- n Water based, low odor, low VOC.

Ease of application

- n Mix with M3P in various ratios to create a mineral stain effect.

Surface Preparation

- n Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper penetration.
- n 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).
- n Surface must be dry and frost free.
- n New concrete must cure at least 14 days before application.

Mixing

- n Stir or mechanically mix using a low speed drill (400 - 600) until homogenous.
- n Box mix pails from different batches when an entire surface is visible.
- n For transparent finishes, mix with M3P in ratios of 1:1, 1:2, 1:3, 1:4, etc. The more M3P-X added, the greater transparency in the finish.
- n Higher dilution rates require more frequent stirring, be sure to mix/stir often to maintain color consistency.

Application

- n Two coats of M3P at selected dilution is required to achieve best results.
- n Apply a test sample to determine suitability. Ensure by visual inspection that M3P has penetrated the substrate. Surface must be absorptive for M3P application to be successful.
- n Ambient temperature must be above 45°F for the entire curing period.
- n For roller applications use a 3/8 - 1/2-inch synthetic nap roller depending on texture of substrate.
- n For spray applications use an airless sprayer with a 0.017 - 0.021 tip.
- n Work to pre-determined break points in the structure. DO NOT CUT IN!
- n Maintain a wet edge while working to each architectural break point.
- n A second application of M3P can be applied after the first is dry-to-touch.

Curing

- n Protect from moisture for 24-48 hours.

Clean Up

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

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Coverage/Yield

- n Coverage rates vary considerably from substrate to substrate for all potassium silicate coatings due to surface texture and absorption rates of the masonry being coated. Apply a mockup to determine coverage rates for specific project.
- n M3P-X – 150 – 300 ft²/gal.

Product Handling

Packaging

- n 5 gallon containers. 45 lbs. per unit
- n 1 gallon containers. 9 lbs. per unit

Shelf Life

- n 18 months in unopened containers.

Storage

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

Limitations

- n Do not apply if precipitation is forecast within 24 hours of application.
- n Do not apply in strong winds.
- n Do not apply to frozen surfaces.
- n Do not apply if temperature of substrate is below 45°F.
- n Do not apply if ambient temperature is below 45°F. Ambient temperature must stay above 45°F during curing period.

Health and Safety

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

First Aid

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

Disposal

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

Technical Data

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

FOR PROFESSIONAL USE ONLY

Conproco warrants this product for one year from the date of manufacture 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. February 25, 2019.

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