

M3P

Brush or roller applied, mineral silicate coating.

WHERE TO USE

Long term protection and enhanced aesthetics of concrete, masonry and stone. Opaque and semi-transparent finishes are obtainable.

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.

Colorfast

- n Fade resistant pigments

Environmentally friendly

- n Water based, low odor, low VOC.

Ease of application

- n Can be blended for semi-transparent finishes, stir and apply.

Extensive color spectrum

- n 34 standard colors, plus Matrix colors and custom matching.

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 or repairs must cure a minimum of 7 days prior to application.
- n Substrate must be absorptive for proper application.

Priming

- n M3P is a self-priming two coat system. Mockups will determine if chalking can occur as a result of an unusually high absorption rate of the substrate

Mixing

- n Stir or mechanically mix using a low speed drill (400 - 600) until homogenous. Product may settle during storage or shipping.
- n Box mix pails from different batches when an entire surface is visible.
- n For opaque finishes, no dilution is required.
- n For transparent finishes, mix with M3P-X 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 Brush or back roll into substrate for pinhole free, uniform coverage.
- 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.

M3P

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 – 150 – 300 ft²/gal.

Product Handling

Packaging

- n 5 gallon containers. 45 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

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| Physical state & appearance | | Thick liquid emulsion, natural |
| Base | | Aqueous |
| pH | | 11.2 |
| Percent solids by weight | | 31% |
| Viscosity | ASTM D562 | 65 - 69 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 | No growth |
| Accelerated weathering – QUV | ASTM G154 | 2000 hours – UV-B cycled with condensation - no effect |
| Hiding power of coating @ 5 mils. | ASTM D2805 | Excellent |
| Water penetration and leakage | ASTM E514 | 100% reduction |
| Water vapor transmission | ASTM D6490 | 96% WVT |
| Water vapor transmission – Procedure B | ASTM E96 | 75 perms |
| Heat stability | ASTM C932 | Pass – 2 weeks @ 120°F |
| Mud cracking @ 10 mils. | | None |

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. July 8, 2019.

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