

# EPOXYMASTER – Concrete & Masonry Deep Penetrating Sealer

## CHEMICAL HARDENER, DENSIFIER, SOLUBLE CHLORIDE REDUCER, CURE AND SEAL

### BENEFITS

- Blocks and reduces vapor emissions through concrete but allows concrete to continue to breathe.
- Purges soluble chlorides and prevents re-entry. Cures and chemically hardens in one application.
- Penetration\* depends on density of concrete and masonry substrate. Does not alter bondability
- Economical. No flammable solvents. Cures, seals, hardens and dust-proofs freshly placed concrete

### DESCRIPTION

EM-CMDPS is a non-flammable, non-toxic, non-acid sealer that internally strengthens and waterproofs cementitious materials. It reduces vapor emissions for application of surface coatings such as polyurea, epoxy, urethane, carpet, and for floor tile, sheet vinyl and hardwood flooring materials. It does not alter the bonding of surface coatings. It also reduces radon gas penetration through concrete.

EM-CMDPS reacts with free calcium hydroxide in the concrete forming a silica hydrogel that fills the capillaries within the matrix. This hydrogel waterproofs and seals the substrate after all materials harmful to the concrete are removed. This process could take up to thirty days or longer, depending on the chloride and acidic residual concentration within the capillaries.

In conditions where salt air and humidity attack the concrete, causing oxidation of the reinforcing steel, EM-CMDPS has proved to halt such corrosion activity. When applied to concrete exposed to such conditions, exfoliation or expulsion of the chlorides takes place.

**PRECAUTIONS:** Protect vehicles, glass surfaces, plant life, aluminum, ceramics, glazed tile and wood from overspray. Remove overspray with water immediately. Unprotected areas should be pre-wet with water and rinsed continuously. Eye protection, gloves and appropriate clothing should be worn to minimize skin contact. **CAN ETCH GLASS.** Remove immediately.

### APPLICATION TO CURED CONCRETE:

Shake well before using. Surface must be free from oils, grease, curing agents, coatings, sealers or any other products that would inhibit the penetration of the sealer. Do not dilute or alter. Protect from freezing. Application temperature range 40°-100°F. Product may be applied by brush, roller or low pressure sprayer with fan tip.

**Vertical Surfaces:** Apply from top to bottom to point of refusal. Apply sealer in multi-coat applications using a low-pressure sprayer. After the first coat has soaked in, immediately apply the second coat. Apply only as much material as the surface will readily absorb. Areas that absorb sealer at faster rate will require additional coats.

**Horizontal Surfaces:** Avoid over-application and puddling. **Excess un-reacted EM-CMDPS will leave white crystals on concrete.** Brush or broom to more porous area. Successive applications should be applied approximately 30-40 minutes apart until surface refuses product. Each application is to be applied so that a light wet sheen appears on the concrete.

**Final Step:** Approximately 30-40 minutes after the last application of EM-CMDPS, check concrete pH [must be 10 or more]. If pH low, **apply EM-CMDPS Catalyst** at approximately 200 sq ft per gallon. After application of catalyst, 30-40 minutes later, apply a light coat of potable water at approximately 300 sq ft per gallon to the surface to carry and lock in uncured

potassium crystals into the concrete. If Catalyst not required, apply the light coat of potable water 30-40 minutes after last EM-CMDPS application.

The application of potable water also leaves the top of the concrete open to accept applications of stains, primers, water repellents, or coatings. After the final application of potable water, the area can be put back into service.

EM-CMDPS must be allowed to cure for 1-7 days, depending upon temperature, humidity and density of the concrete, before any other type of surface material is applied.

### CURE AND SEAL FOR NEW CONCRETE:

Can be used to cure and seal newly placed concrete.

**Method:** Upon removal of forms or disappearance of bleed water and when concrete will not be marred by walking workmen, use a low-pressure sprayer with a fan-tip nozzle producing ½ gal per min. with 40 psi, a brush or roller to apply a uniform film. Avoid puddling in low areas.

**VERTICAL SURFACES:** Apply from top down using a low-pressure sprayer (40 psi) with a fan-type nozzle or with a roller with a minimum 3/8" nap. Flood surface until excess runs down 6 to 8 inches below spray pattern. For maximum coverage, a second wet-on-wet re-application within 20-40 minutes is recommended.

**HORIZONTAL SURFACES:** Apply a flood coat using sufficient material so surface remains wet for 3 to 5 minutes. A second wet-on-wet re-application within 20-40 minutes is recommended for maximum coverage. **CAUTION:** Avoid over-application or ponding as may cause darkening of surface. Brush or broom to spread to more porous area.

**DRY TIME:** Dry to touch in 2 to 6 hours depending upon temperature and humidity.

**COVERAGE: Test patterns should be performed to determine best approach and estimated coverage.**

Fresh Concrete: 150 - 250 sq. ft. /gal

Cured concrete: Rough Slab Finish: 50 – 150 sq ft/gal

Dense and Smooth Finish: 150 – 250 sq ft/gal

\*Different concrete and masonry composites may require different system approaches. Contact Foxfire for further information.

**COMPLIANCE:** VOC/VOS. ASTM C67. ASTM C666. ASTM C23-69. ASTM C805. ASTM C873. ASTM C779. ASTM C39. ASTM D4060. AASHTO T260. AASHTO T259-78. CSA A23/2-90. USDA compliant for use in food processing areas.

**CLEAN UP:** Rinse equipment with cold water. Dispose of empty containers appropriately.

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