

FOX FIRE

CLEANERS + SEALERS + CORROSION CONTROL

MATRIX PRO™ PLUS

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

- **Blocks and reduces vapor emissions through concrete but allows concrete to continue to breathe.**
- **Permanently cures, seals, hardens and dust-proofs freshly placed concrete.**
- **Purges soluble chlorides and prevents re-entry.**
- **Does not alter surface profile or affect bondability.**
- **Economical. Zero VOC. No flammable solvents**

DESCRIPTION: Foxfire MATRIX PRO™ PLUS is a non-flammable, non-toxic, non-acid sealer that internally strengthens and waterproofs cementitious materials. MATRIX PRO™ PLUS 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. MATRIX PRO™ PLUS may also reduce radon gas penetration through concrete. MATRIX PRO™ PLUS is a 0% VOC product.

Foxfire MATRIX PRO™ PLUS 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, MATRIX PRO™ PLUS has proved to halt such corrosion activity. When applied to concrete exposed to such conditions, exfoliation or expulsion of the chlorides takes place.

PRECAUTIONS: Read MSDS prior to use. 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.

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 MATRIX PRO™ PLUS 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 MATRIX PRO™ PLUS, apply **Foxfire MATRIX PRO 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 the uncured potassium-lithium crystals. The application of potable water also leaves the top of the concrete open to accept applications of stains, primers or other coatings. After the final application of potable water, the area can be put back into service.

Foxfire MATRIX PRO™ PLUS 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 15 -20 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 20-30 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 composites (flash additives) 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 according to regulations.

Disclaimer/Warranties: Neither manufacturer nor seller have any knowledge or control concerning the purchaser's use of the product. No expressed warranty is made by manufacturer or seller with respect to the results of any use of the product or container that the product comes in. No implied warranties including, but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose are made with respect to the product. User shall rely on his or her own information and tests to be determine suitability of the product for the intended use and user assumes all risk and liability resulting from use of the product. Neither manufacturer nor seller assume any liability for personal injury, loss or damage resulting from the use of the product. We do not suggest or guarantee that any hazards listed herein are the only ones which may exist. In event that the product shall prove defective, buyer's exclusive remedy shall be that the seller or manufacturer shall, upon written request of buyer, replace any quantity of the product which is proven to be defective or shall, at its option, refund the purchase price of the product upon return of the product. Manufacturer shall not be responsible for use of this product in a manner to infringe on any patent held by others.