



1500 CONCRETE SEALER

Basic use:

MOXIE 1500 CONCRETE SEALER is a ready to use liquid, formulated for the prevention of water and vapor migration and alkali efflorescence attack. Protects and preserves concrete and masonry against premature weathering problems. Suitable for new and existing concrete. The ultimate sealer hardener and dustproofing solution for all above/below grade, vertical and horizontal concrete surfaces.

Advantages:

- Prevents moisture and vapor migration - .015 WVT perms
- Prevents metal corrosion and deterioration
- Improves weathering resistance
- Negative and positive side application
- Dustproofs surface
- Resists freeze thaw (exceeds 360 cycles) to 2.8% loss by weight
- Hydrostatic pressure to 100 psi (231 ft. below grade)
- Preserves and prepares masonry for paints, coatings, and adhesives
- Cures concrete uniformly and increases surface hardness up to 23 %
- Penetrates up to 7 inches
- Prevents efflorescence
- Prevents chloride intrusion
- Adds density & bond strength
- Prevents flaking of paint
- Increases insulation R factor
- Prevents mildew and fungi
- Resists acid attack, **see table below**

Acid Type	Concentration	Exposure 1	Exposures 2-6
Hydrochloric	37%	Surface etched	No reaction
Nitric	70%	Surface etched	No reaction
Sulfuric	98%	Surface etched	No reaction
Phosphoric	85%	No reaction	No reaction

Description:

MOXIE 1500 CONCRETE SEALER is water based, non-toxic, and composed of in-organic, chemically reactive, complex catalyzed silicate compounds, which allows full penetration up to seven inches. MOXIE 1500 CONCRETE SEALER undergoes a chemical reaction with the by products of the curing process to form the highest density of cementitious materials, dramatically enhancing all of the natural characteristics of concrete and reducing the capillary voids to practically zero.

Packaging:

MOXIE 1500 CONCRETE SEALER is available in the following packages:

- 275 gallon tote (US.)
- 55 gallon drum (US.)
- 5 gallon pail (US.)
- 1 gallon bottle (US.)

Applicable Standards:

MOXIE 1500 CONCRETE SEALER meets or exceeds the following performance specifications for their appropriate applicability:

ASTM E96, E1745, F710, F2170 - Sec 7.9, C156, C666, C805, D4263, D5084, C309 Performance criteria, CARB EPA USDA VOC=0

Report of ASTM C-156 & C-309, Curing Properties, Loss of Moisture Performance criteria:

Tests: Application rate 200 sq. ft. per gallon (one coat) **Loss of moisture:** at 24 hr's. - 0.433k/m² at 72 hr's. - 0.541k/m²

Preparatory Work:

Some steel troweled surfaces, which have aged longer than 28 days, may need to be shot blasted first, contact manufacturer. Any free or loose dirt, grease, oil, efflorescence, foreign matter, paints or coating, must be physically removed first.

Limitations:

MOXIE 1500 CONCRETE SEALER is formulated solely for concrete and masonry products and should not be used on asphalt, metal, or wood products. Will not penetrate acrylic, non-porous, coatings or paint. Should not be applied below 45°F. MOXIE 1500 CONCRETE SEALER will seal against a hydrostatic pressure; however, flowing water must be stopped before application. Very damp, cold days may extend drying times. Higher temperature will shorten drying times.

Application:

Use a low-pressure sprayer, backpack, Hudson or garden type. Mist with water prior to application. If acid washing make sure acid is **COMPLETELY REMOVED AND NEUTRALIZED** prior to application. It is recommended to wait no longer than 28 days before application. Surface will still be porous enough to insure proper absorption. A clean surface is required. Remove any wax, grease, rubber, paint, or any other type of surface sealer. Concrete older than 4-6 months may require shotblasting or grinding may be required to allow MOXIE 1500 CONCRETE SEALER to penetrate into the pores of the concrete. **Consult the "Moxie 1500 Concrete Sealer Application Procedures"** technical document. Two coats minimum are required above grade; three coats below grade.

APPLICATION METHOD: Mist with water, immediately apply first product application coat by saturating the surface. On vertical surfaces allow approximately 12" rundown. When this is **NEARLY** dry, apply second coat. When last application is nearly dry **"mist" with water again**. After 12-24 hours, flood surface with water, broom out any puddling. If efflorescence appears continue flooding twice daily until efflorescence no longer appears.

NOTE: High porosity, suspended lightweight structural, or below-grade applications will require a third or subsequent applications.

Curing:

The best concrete cure can be obtained with one heavy application (approx. 250 to 300 sq. ft. per gallon) after final finish. **For moisture vapor, alkali efflorescence or pH oriented applications**, proceed with re-application of product of product on day two.

Surface Coverage:

Two coat coverage will yield approximately 150 sq. ft. per gallon, two coats. First coat will use about twice the amount of the second coat. A third, fourth, or fifth application may be required for some surfaces depending on porosity.

Precautions:

1. **DO NOT APPLY TO FRESH CONCRETE (LESS THAN 28 DAYS) IN WHICH AN ACCELERATOR WAS USED.**
2. **Due to pH level do not allow this product to come in contact with plant life or leather. DO NOT ALLOW PRODUCT TO COME IN CONTACT WITH GLASS, PORCELAIN OR CERAMIC TILE, ALUMINUM, ZINC OR GALVANIZED STEEL. Product will permanently etch or erode the smooth surface. Must be rinsed with water or removed with damp cloth immediately. DO NOT APPLY IN WINDY CONDITIONS.**
3. **Alkali salts (efflorescence) which usually appear on the surface must be rinsed off or will react with the carbon dioxide in the air within 24 hrs. - 48 hrs. and become permanent, insoluble calcium carbonates. Flooding with water must be performed EVERY 12 -24 HRS. FLOOD WITH WATER, SCRUB and flush off thoroughly until no more efflorescence is present. If not, these salts will require physical removal such as aggressive wire brushing or grinding.**

Limited Warranty: 10 years