

AQUASEAL ME[®]



100% Concentrate Micro Emulsion



MADE IN U.S.A.

PRODUCT DESCRIPTION:

ITEM NO. 5000

AQUASEAL MICRO EMULSION is a 100% active oligomeric silane and alkyl-alkoxy siloxane self-emulsifying concentrate liquid. The diluted, aqueous solution of **AQUASEAL ME** serves as a high quality, general-purpose water repellent for impregnating mineral and alkaline substrates.

With the addition of water and simple agitation, it creates an aqueous solution that forms a colorless, non-staining, breathable, deep penetrating water repellent for absorbent natural stone, brick, stucco, concrete and masonry. It is designed for use on above grade exterior vertical or horizontal applications. When applied to a sound substrate, it completely stops water seepage.

BASIC USES:

AQUASEAL MICRO EMULSION can be used on absorbent substrates to protect against the damaging effects of water deicing, chemicals, freeze-thaws, acid rain exposure and other atmospheric chemicals without changing the surface appearance or texture.

ADVANTAGES:

- Universally Compliant with all state's VOC requirements.
- Excellent water repellency for up to 10 years.
- Easy to emulsify into a water based product.
- Suitable for both dry and damp surfaces.
- Breathable and permeable to water vapor.
- Paintable with latex or oil based paints and stains.

Product Qualifications	
Cal Green	Yes
SCAQMD	Yes
CARB	Yes
LEED (New Construction)	Yes
LEED (New Schools / CHPS)	Yes

PREPARATION:

1. The cause of the water infiltration should be determined. The substrate should be inspected to identify repairs or improvements which may be necessary prior to application.
2. All mortar joints should be sealed. Cracks, holes, voids, etc. larger than 1/16" (hairlines) should be filled.
3. Alkali, lime or efflorescence on the surface should be treated and cleaned with a proper neutralizing agent (such as a 4:1 water to muriatic acid solution. Rinse off all excess acid then allow 24 to 36 hours to dry before application.
4. All preparation, painting and caulking of joints or cracks should be allowed to cure prior to application.
5. Allow new concrete to cure for 28 days before application.
6. Do not apply **AQUASEAL ME** to a wet surface. All surfaces must be dry for a minimum of 24 hours following rain. Moisture levels should not exceed 15%.
7. In hot, dry weather it is recommended that the surface be slightly damp (not wet) before application to improve material penetration.

TECHNICAL DATA:

Composition: 100% Active Silane Oligomeric
 1:14 Dilution Solids Contents (ASTM D2369)..... 7% ±1
 1:10 Dilution Solids Contents..... 10% ±1
 VOC Level (after dilution)..... <30 g/L
 (SCAQMD Rule 1113, section d(3). Low Solids Coating Rule)
 Weight per Gallon 9 Lbs
 Appearance when dry..... Clear, No change in surface
 Color yellowish to reddish
 Flash Point Diluted..... 145°F-180°F
 Flash Point Concentrated 82°F
 Warranty 10 Years

TEST DATA:

Water Vapor Transmission (ASTM D 1653-03)..... >97% Breathable
 Water Permeance of Masonry (ASTM E514) 96-99% Reduction in Leakage
 U.S. Federal Specification (SS-W-110C) [Min. Required 75%] 96-97%
 Accelerated Weathering 2000 Hours (ASTM G154-06)..... Passes, No Loss in Repellency
 Freeze Thaw Cycles (5) [Min. Required 200] 500
 Water Absorption Concrete (ASTM C642@48 Hours) <0.6% Absorption
 Water Absorption Brick (ASTM C67) [Min. Required 75%] 96-97% Repellency
 Scaling Resistance (ASTM C672) Zero to no scaling (0+ rating)
 NCHRP 244 Series II..... 85% Reduction of Water Absorption
 NCHRP 244 Series II 88% Reduction of Chloride Absorption
 Efflorescence Resistance (NBS 883) Excellent
 Outdoor Exposure Tests Excellent

PREPARATION (continued):

8. Before applying **AQUASEAL ME**, be sure to cover windows and other non-absorbent surfaces because the product cures so quickly that it will be extremely difficult, if not impossible, to remove after a few days. Wipe off all splashes on window panes immediately using soapy water or, if necessary, an organic legally compliant solvent.

APPLICATION:

- **AQUASEAL MICRO EMULSION** must be tested in a small area prior to doing the complete job to insure proper results and to determine proper coverage and application procedures.
- Apply with a low pressure airless spray not to exceed 20 PSI.

TIP SIZE:

Porous Surfaces: 0.035 or larger; Dense Surfaces: 0.035 or smaller

- **AQUASEAL ME** should be applied in a uniform manner. Each application coat consists of a light fog spray that wets the entire surface and breaks the surface tension. To achieve the maximum penetration, the fog coat must be immediately followed by a flood coat. This flood coat will yield an 8-10 inch rundown. Back rolling the rundown will maximize performance but is not required.
- **AQUASEAL ME** is to be used in one coat application. If surface is very porous and still absorbant an additional treatment is needed. A second coat may be applied wet-on-wet (within 15



THERMAL AND MOISTURE PROTECTION

WATER REPELLENTS 07190

MONOPOLE INC.
UPDATED MARCH 2015



MONOPOLE INC.

Manufacturer of
U.S. SPECIALTY COATINGS

4661 Alger Street • Los Angeles, CA 90039

Tel: 818-500-8585 • Fax: 818-502-0818

www.monopoleinc.com • Email: info@monopoleinc.com

minutes). Do not apply more material than can be absorbed into the surface. Excess material remaining may result in a glossy appearance that can alter the adhesion of subsequent applications of paints or other coatings.

CAUTION:

Do not apply **AQUASEAL ME** to non-porous or sealed substrates such as glazed tile, glazed brick, glass, metal, shrubs, plants, automobiles, and asphalt. Mask off and protect all such substrates during the application.

CLEAN UP:

Wash all equipment with soapy water immediately while the material is still fresh.

COVERAGE RATES:

Coverage rate may vary considerably due to the porosity of the surface. Always test and approve with the project architect and/or building owner prior to doing the complete job.

**Vertical surfaces (Dense Substrates)
One Coat Application**

*Dilution Ratio: 1:14 (Mix 14 gallons of water to one gallon of **AQUASEAL ME**)*

<u>Substrate</u>	<u>Application</u>	<u>Coverage</u>
Precast Concrete	10" Run Down	120-200
Poured Concrete	10" Run Down	120-200
Tilt-ups, Concrete	10" Run Down	120-170
Dense Brick	10" Run Down	80-125
Stucco	10" Run Down	80-125
Plaster/Stone	10" Run Down	200-300

**Vertical surfaces (Porous Substrates)
One Coat Application**

*Dilution Ratio: 1:10 (Mix 10 gallons of water to one gallon of **AQUASEAL ME**)*

<u>Substrate</u>	<u>Application</u>	<u>Coverage</u>
Mammoth Blocks	10" Run Down	50-60
Split Face Blocks	10" Run Down	50-70
Standard Blocks (ASTM C90-75 Grade N)	10" Run Down	60-80

Horizontal surfaces

*Dilution Ratio: 1:5 (Mix 5 gallons of water to one gallon of **AQUASEAL ME**)*

<u>Substrate</u>	<u>Application</u>	<u>Coverage</u>
Porous Concrete	Saturate, no puddles	60-80
Smooth Concrete	Saturate, no puddles	120-200

*Concrete blocks and other porous substrates (vertical and horizontal) may require two coats of **AQUASEAL ME**. Apply a second coat (wet-on-wet within 15 minutes) at the coverage rate of 100-140 sq/ft per gallon.

LIMITATIONS:

AQUASEAL ME does not form a water-proofing membrane and does not seal inaccessible areas. It will not bridge cracks, fill large pores or compensate for flawed construction. Exposed walls must be capped and the backside of parapet walls must be sealed, flashings must be in place and weep holes and drains installed and functioning (where applicable).

STORAGE:

Store in temperatures between 40°F to 85°F. Protect **AQUASEAL ME** from freezing, moisture and direct sunlight.

SHELF LIFE:

One year in well protected storage.

PACKAGING:

AQUASEAL ME is packaged in 1-gallon cans, 5-gallon pails, and 55-gallon drums.

SAFETY & FIRST AID:

- Do not allow near open flames, sparks or heaters.
- Do not smoke in storage or mixing areas.
- Use in a well ventilated area, or wear an air-supplied respirator.
- Always wear protective goggles and gloves.
- If inhaled, move immediately to fresh air.
- In case of skin or eye contact, flush immediately with water for 15 minutes. Remove contaminated clothing and shoes. Call a physician.
- Local, state and federal regulations should be consulted for proper disposal procedures.

WARRANTY INFORMATION: MONOPOLE believes that the information in this publication is an accurate description of the typical characteristics and/or uses of the product or products. It is your responsibility to thoroughly test the product in your specific application to determine its safety and performance capabilities. Since use of this product is beyond our control, MONOPOLE, INC. cannot assume any risk or liability for results obtained when not used according to our specifications and directions. Unless MONOPOLE provides a specifically written statement of fitness for a particular use, MONOPOLE'S sole warranty is that the product will meet its current sales specifications. MONOPOLE disclaims any other expressed or implied warranties, including the warranty of merchantability and fitness for use. Your exclusive remedy and MONOPOLE'S sole liability for breach of warranty is limited to a refund of the purchase price or replacement of any product proven to be defective. In no event shall the seller be liable for any loss of profits or other consequential damages, including labor charges.