



# AQURON® MVB™

Proven Since 1985

## Concrete Moisture Vapor Blocker CONCRETE PROTECTION AND WATERPROOFING

### MANUFACTURER

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### PRODUCT DESCRIPTION

**AQURON® MVB™** Concrete Moisture Vapor Blocker is an amber colored, environmentally friendly ecologically safe aqueous dispersion liquid that seals the concrete's matrix and surface simultaneously.

### BASIC USE

**AQURON® MVB™** is an amber colored milky aqueous dispersion liquid that when applied properly to Portland cement concrete deeply penetrates, sealing the concrete's surface and inner matrix.

**AQURON® MVB™** forms a clear to milky film surface depending on concrete's density and surface finish that is durable and tenacious in adhering to concrete's surface.

**AQURON® MVB™** is a single application product that is a permanent moisture-vapor blocker that will reduce moisture-vapor transmission to below threshold levels established by coatings/topical manufacturer.

**AQURON® MVB™** will reduce moisture-vapor emissions rate from 5.5 to 3 pounds or less in 24 hours. Where emission rates are higher than 6 pounds or RH readings higher than 80% RH, a pre-treatment with **AQURON® CPT-2000™** could be required. (Consult with Aquron Technical Department.)

**AQURON® MVB™** also densifies, strengthens and adds abrasion resistance to concrete.

**AQURON® MVB™** forms a non-tacky surface when dry. (It is suggested that ASTM 1869 calcium chloride test be used to establish final moisture content).

### SOME ATTRIBUTES

- Permanently seals concrete
- Improves adhesion of topicals
- Preserves matrix integrity
- Increases surface abrasion resistance
- Excellent primer for coatings
- Adds density

- Improves thermal resistance
- Increases strength
- Zero VOC/VOS content
- Prevents internal water migration
- Improves acid/chemical resistance
- Lowers internal chemical reaction potential
- Lowers electrostatic discharge potential

### COMPOSITION

**AQURON® MVB™** is an amber colored, aqueous dispersion liquid that seals the concrete's matrix and surface simultaneously.

### APPLICABLE STANDARDS

- ASTM C-67 Section 7 Water absorption
- ASTM 67 Section 9 Suction
- ASTM C-67 Section 10 Efflorescence
- ASTM C-666 Freeze-thaw resistance
- ASTM C-23-69 Artificial weathering
- ASTM C-666 Salt attack resistance
- AASHTO T260 Chloride-ion content
- AASHTO T259-78 Chloride-ion penetration
- VOC/VOS Compliant

### PHYSICAL PROPERTIES

Physical	liquid
Color	amber milky
Specific gravity	1.06
Flash point	none
ph	11.5±
Toxicity	none
Boiling point	230°F/110°C
Freeze temperature	32°F/0°C
Hazardous vapors	none
Weight per gallon	8.82 lbs./gallon
Environmentally	neutral
User	friendly
Shelf life	indefinite
Flammability	none
VOC/VOS content	none
Resistance to UV	excellent
Paintable	yes
Pollutants	none
Waste disposal method	non-hazardous
Resistance to abrasion	excellent
Polymerization	excellent
R-Factor	increase up to 20
Recommended coverage rate	300 - 350 sq.ft/7m <sup>2</sup> - 8.2m <sup>2</sup> per liter

## INSTALLATION

### Job Conditions

1. Do not proceed with application of AQURON® MVB™ when ambient temperature and/or substrate temperatures are less than 55°F/12.8°C or forecasted to drop below 55°F/12.8°C during the next 24 hours.
2. Should temperatures be extremely hot, cool surface with sufficient water to decrease temperatures.
3. Caution should be taken in windy conditions as AQURON® MVB™ if allowed to dry on, can etch glass or dull shiny aluminum. If contact is made with glass or aluminum rinse surface immediately with water before AQURON® MVB™ dries on surface.
4. As a water borne product AQURON® MVB™ must have access to the surface. Any previous coatings, oil or grease must be removed.
5. Do not dilute. Use as supplied.
6. Once AQURON® MVB™ is applied, wait until thoroughly dry, at least 24 hours, before applying impervious coatings, coverings etc.

### Application Procedure

#### For Established Cured Concrete

1. First, stir product to insure that there is no settlement.
2. AQURON® MVB™ must be applied to concrete's surface using a medium nap paint roller.
3. First pour a manageable amount of AQURON® MVB™ onto the surface of clean/topical-free concrete.
4. Using a medium nap paint roller uniformly and evenly distribute the AQURON® MVB™ over the concrete's surface at a rate of 300 to 350 sq. ft. per U.S. gallon / 7m<sup>2</sup> - 8.2m<sup>2</sup> per liter.
5. Applicator should always apply AQURON® MVB™ with their feet firmly standing on dry, untreated concrete to minimize possible slippage.
6. Once application is complete, wait at least 24 hours for thorough curing of AQURON® MVB™ before applying topical.

**NOTE:** Temperature and relative humidity conditions can extend the drying period. Room temperature should be warm with fan(s) moving the air.

## PRECAUTIONS

- Spills or spray droplets in contact with glass should be removed immediately by flushing with water. **DO NOT ALLOW TO DRY** as etching can occur.
- Some discoloration of aluminum can occur.
- AQURON® MVB™ can not be used in direct contact with solvent (VOC/VOS) based adhesives or coatings. If solvent based coatings must be utilized, then a water based or latex primer must be used to completely coat the thoroughly dried AQURON® MVB™ application before applying any solvent based coatings.
- Do not apply AQURON® MVB™ when air and/or substrate temperatures are less than 55°F/12.8°C and will not decrease to less than 55°F/12.8°C for 24 hours.
- **STIR PRODUCT BEFORE USE.**

## CLEAN-UP AND SAFETY

Caution must be taken, as treated surface may be slippery until completely cured. No special clothing, breathing apparatus, goggles and gloves are necessary but in enclosed areas it is advisable to wear a simple dust mask to avoid possible irritation to breathing. Attention should be made to watches, eyeglasses etc., as AQURON® MVB™ can etch glass or discolor aluminum if allowed to dry.

Clean all equipment using water and mild soap. Never store equipment without cleaning and following manufacturer's recommendation for storage between usage.

## SHELF LIFE

Shelf life is indefinite provided containers are kept tightly sealed when not in use.

## PACKAGING

AQURON® MVB™ is available in 5 gallon/18.9 liters drum size.

AQURON® MVB™ is also available in bulk containers.

## TECHNICAL SERVICES

Technical information and assistance may be obtained through your local dealer, or by calling the technical department of the AQURON Corporation at (972) 722-5444, (800) 342-4649 Office, or (972) 722-6412 FAX or toll free FAX (888) 412-1543. E-mail welcome – [aquron@aquron.com](mailto:aquron@aquron.com)

### Warranties and Limitations of Liability

Aquron Corporation ("Seller") warrants that if any goods supplied prove defective in workmanship or materials, that Seller shall replace them or refund their purchase price. Aquron Corporation offers a performance warranty for this Aquron® product. The warranty for the performance of this Aquron® product must be requested from the Aquron Corporation and initiated prior to applying this Aquron® product. Failure to initiate warranty of performance prior to application, holds harmless Aquron Corporation of any liability arising from its use, and user assumes all risk and liabilities whatsoever in connection therewith. The terms of this paragraph may not be orally modified. There are no warranties express or implied which extend beyond the face herewith.

### Local Area Representative