

AQUORON MVB™

CONCRETE MOISTURE VAPOR BLOCKER

MANUFACTURER

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PRODUCT DESCRIPTION

AQUORON® MVB™ is an amber colored, environmentally friendly, ecologically safe, aqueous dispersion liquid that seals the concrete's matrix and surface simultaneously.

BASIC USE

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

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

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

When properly applied **AQUORON® MVB™** will reduce moisture-vapor emissions rate from 8 to 3 pounds or less in 24 hours. Where emission rates are higher than 6.5 pounds, a pre-treatment is with **AQUORON® CPT-2000™** is required. (Consult with Aquron's Technical Department.)

(It is suggested that ASTM 1869 calcium chloride test be used to establish final moisture content.)

AQUORON® MVB™ also densifies, strengthens and adds abrasion resistance to concrete, forming a non-tacky surface when dry.

COMPOSITION

- 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

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 strengths
- Zero VOC/VOS content
- Prevent internal water migration
- Improves acid/chemical resistance
- Lowers internal chemical reaction potential
- Lowers electrostatic discharge potential

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.
- Do not apply **AQUORON® MVB™** when air and/or substrate temperatures are less than 40°F and will not decrease to less than 40°F for 24 hours.
- **AQUORON® MVB™** can not be used in direct contact with solvent based adhesives or coatings (VOC/VOS). If solvent based adhesives or coatings are utilized, a water based or latex primer must be used to completely coat the **AQUORON® MVB™** application before applying any solvent based adhesive or coating.
- Stir product before use.

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

■ PHYSICAL PROPERTIES CONTINUED

Pollutants	none
Waste disposal method	Non-hazardous
Resistance to Abrasion.....	excellent
Polymerization.....	excellent
R-Factor.....	increase up to 20
Recommended coverage rate.....	350-400 sq. ft./US gallon

■ INSTALLATION/ JOB CONDITIONS

1. Do not proceed with application of **AQURON® MVB™** when ambient temperature and/or substrate temperatures are less than 40°F or fore-casted to drop below 40°F during the next 24 hours.
2. Should ambient or substrate temperature be 95 degrees or higher, cool surface with sufficient water so that the surface stays damp. Disperse puddled water.
3. Caution should be taken in windy conditions as **AQURON® MVB™** if allowed to dry, 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 at least 24 hours before applying impervious coatings, coverings etc.
7. **AQURON® MVB™** can not be used in direct contact with solvent based adhesives or coatings (VOC/VOS). If solvent based adhesives or coatings are utilized, a water based or latex primer must be used to completely coat the **AQURON® MVB™** application before applying any solvent based adhesive or coating.

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 square feet per U.S. gallon.
5. Applicator should always apply **AQURON® MVB™** with their feet firmly standing on dry, un-treated concrete to minimize possible slippage.
6. Once application is complete, wait 24 hours for thorough curing of **AQURON® MVB™** before applying topical.

■ 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 equipment using water and mild soap. Never store equipment without cleaning and following manufacturer's recommendations for storage between usage.

■ SHELF LIFE

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

■ PACKAGING

AQURON® MVB™ is available in 5-gallon/213.4 liters drum size. **AQURON® MVB™** is also available in bulk containers.

■ TECHNICAL SERVICES

Technical information and assistance may be obtained from your local distributor or by calling the technical department of the Aquron Corporation at (972) 722-5444, (800) 342-4649 Office, or fax (972) 722-6412 FAX or toll free FAX (888) 412-1543 or email at aquron@aquron.com

LOCAL AREA REPRESENTATIVE

WARRANTIES AND LIMITATIONS OF LIABILITY

AQURON International ("Seller") warrants that if any goods supplied prove defective in workmanship or materials, that Seller shall replace them or refund their purchase price. There are no warranties express or implied, which extend beyond the face herewith.