## **AQUA SEAL**

# WATER BASED EPOXY VAPOR PRIMER/SEALER Technical Data Sheet

## **Description:**

Aqua Seal Vapor Treatment is the ideal treatment for cured concrete that exhibits excessive moisture vapor transmission. Aqua Seal water-based epoxy primer is designed specifically for green or damp concrete. Aqua Seal is compatible with 100% solids epoxies and membranes.

## **Product Benefits:**

Eliminates the negative effects of moisture vapor transmission under decorative or industrial epoxy flooring systems. Tolerates Moisture Vapor Transmission (MVT) 80% or greater relative humidity as measured by ASTM F 2170 (determining relative humidity in concrete slabs using in situ probes) & up to 18 lbs. per 1,000 ft2 (9 Kg. per 92.9 m2) per 24 hours as measured by ASTM F 1869 (calcium chloride test).

Calcium chloride test should not be used unless building is fully climate controlled per ASTM Standards Environmentally friendly, zero VOC content.

Low viscosity allows for excellent penetration of concrete substrate

Effective with green or highly alkaline concrete

Allows fast-track construction schedules

### **ASTM E-96 Test Results:**

According to ASTM E-96, Standard Test Method for water Vapor Transmission Materials, Aqua Seal Vapor Treatment measured the following permanence under the testing conditions.

Test Conditions
Test Results
Uncoated concrete over water
2.67 perms
Uncoated concrete with constant 85% RH
1.32 perms
With constant 85% RH, concrete treated with Aqua Seal
0.21 perms

## Coverage:

Typical coverage is approximately 200 ft2. (18.58 m2) per gallon. Coverage will vary depending on surface porosity and surface profile. When product is applied to soft / chalky concrete, coverage rates will decrease significantly.

## **Concrete Substrate Preparation:**

- 1. Product applied as soon as water evaporates from concrete surface
- 2. Apply to fully cured concrete (> 28 days)
- 3. Concrete surface shall be prepared mechanically by shot blasting. Surface preparation results should achieve a CSP3–CSP5 profile according to ICRI Guideline No. 03732.
- 4. All surface contaminants must be removed.

## Mixina:

Aqua Seal Moisture Vapor Primer / Sealer is a <a href="https://www.hree.component.google-co

## **Applications:**

Apply Aqua Seal Moisture Vapor Primer at a rate of 200 ft2 (18.58 m2) per gallon. Avoid puddles or standing water visible on the concrete substrate surface. Aqua Seal Moisture Vapor Primer can be sprayed, brushed or squeegee and rolled onto the concrete. In order for product to perform as specified it is critical to not exceed the recommended coverage rate of 200 ft2 (18.58 m2) per gallon. Avoid leaving any puddles of Aqua Seal.

### **Cure Time:**

Allow 8 hours minimum and 24 hours maximum before applying next coat, must be water clear before coating over.

#### **Additional Considerations:**

Do not use in temperatures below 60°F (15.5°C). Do not use where known hydrostatic pressure conditions exist. Where relative humidity exceeds 95% and/or Moisture Vapor Transmission rates exceed 18 lbs. per 1,000 ft2 (9 Kg. per 92.9 m2) per 24 hours.

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