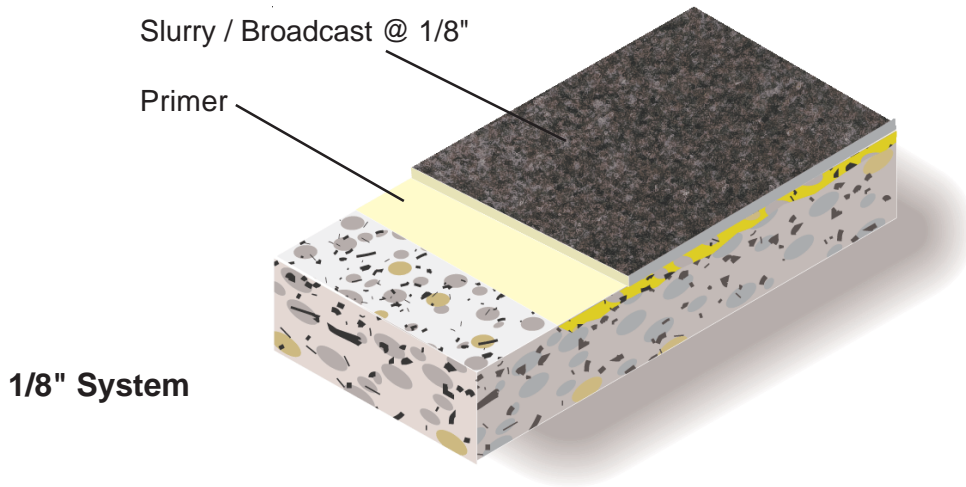




# AquArmor™ MCS Moisture Control System

General Polymers **AquArmor MOISTURE CONTROL SYSTEM** is a low odor, self-leveling system to be applied to concrete to control moisture vapor emissions. **AquArmor MOISTURE CONTROL SYSTEM** can be applied with a v-notched trowel /squeegee. It is designed to provide a refinished surface on concrete prior to the application of a non-permeable flooring finish.



**Advantages**

- No testing for moisture necessary
- Used under all floor finishes
- Low odor, water-based
- Excellent compressive strength
- Moisture insensitive
- Withstands vapor emissions

**Uses**

- Moisture vapor remediation
- Underlayment for impermeable flooring systems
- Repairs and levels deteriorated concrete

**Limitations**

- Do NOT apply to wet surfaces (no visible water)
- Must be installed at a minimum of 1/8"

**Typical Physical Properties**

Color	Gray	
Cure Time	Recoat	18 hours
Adhesion ACI 503R	350 psi 100% concrete failure	
Hardness, Shore D ASTM D 2240	75	
Tensile Strength ASTM C 307	500-550 psi	
Compressive Strength ASTM C 579	5,800 psi	
Flexural Strength ASTM C 580	1,200 psi	

ASTM C = Mortar System  
ASTM D = Resin only

## Installation

The following information is to be used as a guideline for the installation of the **AquArmor MOISTURE CONTROL SYSTEM**. Contact the Technical Service Department for assistance prior to application.

### Surface Preparation - General

General Polymers systems can be applied to a variety of substrates, if the substrate is properly prepared. Preparation of surfaces other than concrete will depend on the type of substrate, such as wood, concrete block, quarry tile, etc. Should there be any questions regarding a specific substrate or condition, please contact the Technical Service Department prior to starting the project. Refer to Surface Preparation (Form G-1).

### Surface Preparation - Concrete

Concrete surfaces shall be abrasive blasted to remove all surface contaminants and laitance. The prepared concrete shall have a surface profile of CSP 4-6. Refer to Form G-1.

After initial preparation has occurred, inspect the concrete for bug holes, voids, fins and other imperfections. Protrusions shall be ground smooth while voids shall be filled with a system compatible filler. For recommendations, consult the Technical Service Department.

### Temperature

Throughout the application process, substrate temperature should be 50°F - 90°F. Substrate temperature must be at least 5°F above the dew point. Applications on concrete substrate should occur while temperature is falling to lessen offgassing. The material should not be applied in direct sunlight, if possible.

## Application Information @ 1/8"

Material	Mix Ratio	Theoretical Coverage Per Coat	Packaging
Primer 3460 plus 20% with potable water	1:4	6-8 Mils WFT	1.25 gals
Binder resin 3460	1:4	80-90 sq ft per 2.5 gal	1.25 gals
5150 AquArmor S Aggregate		30 lbs per 2.5 gal @ 1/8"	30 lb bags
Broadcast 5310		50-60 lbs per 100 sq ft	50 lb bags

## **Primer**

### ***Mixing and Application***

1. Premix 3460B (hardener) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to introduce air into the material.
2. Add 1 part 3460A (resin) to 4 parts 3460B (hardener) plus 20% potable water. Mix with low speed drill and Jiffy blade until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations.
3. 3460 may be applied via spray, roller or brush. Apply at 250 square feet per gallon to yield 6-8 mils WFT evenly with no puddles making sure of uniform coverage. Coverage will vary depending upon porosity of the substrate and surface texture.
4. Two applications of 3460 Primer may be necessary to adequately seal and fill the surface imperfections and protect against outgassing. This can be accomplished by applying two tight, flat squeegee coats (pushing not pulling) in opposite directions at 15-20 minutes apart.

### **Slurry Coat - Broadcast to 1/8"**

#### ***Mixing and Application***

1. Premix 3460B (hardener) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to introduce air into the material.
2. Add 1 part 3460A (resin) to 4 parts 3460B (hardener) by volume. Mix with low speed drill and Jiffy blade until uniform. Slowly add up to 30 lbs 5150 AquArmor S Aggregate per 2.5 gallons of mixed material. Mix with low speed drill and Jiffy blade and until uniform and no lumps remain.
3. Immediately pour the mixed material onto the substrate and pull out using a 1/4" v-notched trowel or 1/4" red rubber squeegee.
4. Allow material to self-level, the surface should be lightly backrolled with a looped roller to help smooth. Use a spiny roller to aid in the release of air.
5. System must be broadcast with silica sand (5310) to build to 1/8" thickness.
6. Allow to cure 18 hours minimum before applying subsequent flooring systems. (Cure times vary depending on environmental conditions).

**NOTE: Temperatures and environmental conditions may impact levelling. It is acceptable to reduce the aggregate loading up to 10% of the 5150 AquArmor S aggregate to improve levelling. Excess air movement across the surface should be avoided.**

## **Cleanup**

Clean up mixing and application equipment immediately after use with water. Observe all fire and health precautions when handling or storing solvents.

## **Safety**

Refer to the MSDS sheet before use. All applicable federal, state, local and particular plant safety guidelines must be followed during the handling and installation and cure of these materials.

Safe and proper disposal of excess materials shall be done in accordance with applicable federal, state, and local codes.

## **Material Storage**

Store materials in a temperature controlled environment (50°F - 90°F) and out of direct sunlight.

Keep resins, hardeners, and solvents separated from each other and away from sources of ignition. One year shelf life is expected for products stored between 50°F - 90°F.

## **Maintenance**

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact the Technical Service Department.

## **Shipping**

- Destinations East of the Rocky Mountains are shipped F.O.B. Cincinnati, Ohio.
- Destinations West of the Rocky Mountains are shipped F.O.B. Victorville, California.

For specific information relating to international shipments, contact your local sales representative.

## **Disclaimer**

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Consult [www.generalpolymers.com](http://www.generalpolymers.com) to obtain the most recent Product Data information and Application instructions.

## Warranty

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