

# MONOCHEM AQUASEAL STAIN<sup>®</sup>

SEMI-TRANSPARENT OR OPAQUE • REGULAR OR WATERPROOF

TECHNICAL  
BULLETIN



MADE IN U.S.A.

## PRODUCT DESCRIPTION:

ITEM NO. 7500, 7600, 8500 ,8600

**AQUASEAL STAIN** is a water based acrylic emulsion that is extremely hard and durable. It creates uniform color toning for all concrete and masonry surfaces. It also maintains the natural look, beauty, and texture of the surface without giving a heavy painted look. It is tintable to any color using universal colorants.

### BASIC USES: FOR POROUS SUBSTRATES ONLY

To determine porosity of the substrate, refer to the Absorption Test.

### \*ABSORPTION TEST:

Sprinkle a few drops of water onto the concrete surface. If water is absorbed into the surface within a few minutes, the surface is ready for cleaning and preparation. If the water remains on the surface (the surface doesn't darken), sandblasting, shot blasting, or acid etching is required. For etching instructions, refer to our **INSTRUCTIONS FOR APPLICATION OF MONOCHEM COATINGS**, or contact our technical service department.

**AQUASEAL STAIN** is designed for exterior or interior application over vertical or horizontal, new concrete, brick, lightweight concrete, slump and regular block, precast panels, stucco, and porous tiles. For wood application, please consult the manufacturer.

### ADVANTAGES:

- Will not peel, chip, or flake like paint.
- Maintains the natural grain and texture of the surface.
- Breathable, allowing moisture to escape from the surface.
- Contains no solvents, toxic fumes or ingredients that are harmful to bystanders.
- Easy to use.
- Does not oxidize like paint.

### PREPARATION / EXECUTION:

- Surface must be dry, clean, and free of alkali, lime and efflorescence. Any previous silicones, paints or other sealers should be removed.
- Allow the masonry to cure for 28 days before staining it. This allows the initial moisture that's unavoidable in a newly built wall to escape. If this initial moisture causes efflorescence and the efflorescence should be removed before applying the stain. After this moisture has dissipated and the stain is applied, the stain (if it's water repellent) will shed water and help prevent further efflorescence.
- Do not apply stain if rain is expected within 24 hours because water can fade the color and prevent drying.
- Do not apply stain when temperature is below 45°F, or above 95°F, or in direct hot sun.
- Prior to applying stain, all mortar joints should be sound. Cracks or voids larger than hairlines should be filled with a suitable patching material and allowed to cure.

### TECHNICAL DATA:

Composition ..... 100% Acrylic Polymer  
Solids by weight Semi Transparent Base ..... 24% ± 2  
Solids by weight Opaque Base ..... 32% ± 2  
Weight per gallon ..... 8.5 Lbs.  
VOC Level ..... < 50 g/l  
Finish after application ..... Flat

#### Water Penetration Tests: Per (ASTM C 67-83)

After 1 hour ..... 98.6% Repellency  
After 2 hours ..... 98.5% Repellency  
After 5 hours ..... 98.1% Repellency  
After 24 hours ..... 98.0% Repellency

#### Water Permeable Tests: Per (ASTM E 514-74 ) (Wind Driven Rain)

After 1 day ..... No Penetration  
After 3 days ..... No Penetration

#### Moisture Vapor Transmission:

Per (ASTM E 398) ..... 3.0 ± 0.5 Perms  
Per (ASTM E 96) ..... 5.0 ± 0.5 Perms

#### Accelerated Weathering:

##### Per (ASTM G154, ASTM D822, ASTM G23)

After 3000 hours of continuous exposure  
..... No color change, no flaking or chalking,  
..... No staining or discoloration

#### Hydrogen Sulfide Resistance:

Per (ASTM D1712) ..... No staining or discoloration

#### Reduction of Chloride Ion Penetration:

Per ASTM D1218 ..... 94% Reduction @ 13-33mm penetration

#### UV Resistance:

Per (ASTM G90) ..... No change in color retention

#### Salt Spray Resistance:

Per (ASTM B117, 5% Sodium Chloride Fog Solution)  
..... No deteriorations, no efflorescence, and  
..... No color fading after 600 hours of exposure

Efflorescence Resistance ..... Excellent  
Polymerized Content ..... Excellent  
Pollution Resistance ..... Excellent  
Oxidation Resistance ..... Excellent

### APPLICATION:

Before applying stain, carefully stir it for at least 5 minutes if hand mixing or 3 minutes if power stirring. Continue to mix the stain during application.

**AQUASEAL STAIN** is best applied by using an airless gun with a 0.015 - 0.019 spray tip. Hold the spray gun at least 12 inches from the surface, avoid overlapping, and use crisscrossing techniques. When fully dry, apply a second coat for the desired appearance and even tone.



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#### APPLICATION HINTS:

1. Don't allow the stain to run. Backroll the stained area to avoid pooling or puddling. Also, insure the stain has penetrated. Remove or wipe away excess material which may cause the stain to become glossy or tacky on the surface.
2. Feather edge the stain at the end of each pass.
3. Don't let the edge of one pass dry before making the next pass.
4. Don't stop applying the stain in random spots. Stop the application only at the inside or outside of corners.

#### RECOMMENDATIONS:

**AQUASEAL STAIN** is available in Semi-Transparent or Opaque, regular or waterproof formulas. When applied over highly porous surfaces, it is recommended to use the following options:

##### For Semi-Transparent Stain Application:

###### **Option #1:**

Apply **AQUASEAL STAIN** Semi-Transparent Regular Formula (7500). Allow to dry for 24 hours, followed by one coat of **AQUASEAL ME12 (5200)**.

###### **Option #2:**

Apply **AQUASEAL STAIN** Semi-Transparent, Water Repellent Formula (7600).

##### For Opaque Stain Application:

###### **Option #1:**

Apply **AQUASEAL ME12 (5200)** first. Allow it to dry for 24 hours, followed by **AQUASEAL STAIN** Opaque Regular Formula (8600).

###### **Option #2:**

Apply **AQUASEAL STAIN** Opaque, Water Repellent Formula (8500).

**COVERAGE:** (Approximate) always test a small area first prior to proceeding with entire application.

Surface Type	Approximate Coverage	
	1st Coat	2nd Coat
Split face, concrete blocks, stucco, Mexican tiles.....	120 - 160	160 - 200
Precast concrete, poured concrete, brick, adobe blocks .....	230 - 360	300 - 350

The coverage rates are approximations and are only estimations. Absorption rates will depend upon the texture and porosity of the substrate. Allow for extra surface area when estimating the coverage for raked joints and fluted or split-face blocks.

#### SHELF LIFE:

**AQUASEAL STAIN** will remain useable in well protected storage for 12 months.

#### NOTE:

The use of **AQUASEAL ME12** penetrating water repellent or other sealers (independently from the stain formulas) will allow the sealers to penetrate deeper into the substrate and will ensure water repellency.

Depending on the intended use of **AQUASEAL STAIN**, the following Monochem clear top coats may be used. Always allow **AQUASEAL STAIN** to dry for a minimum of 24 hours before applying any of the following:

#### VERTICAL SURFACES

**AQUASEAL ME12** - Flat Finish

**AQUASEAL 20** - Flat Finish

**AQUASEAL 40** - Flat Finish

**AQUAPELL** - Flat Finish

**AQUASEAL HEAVY DUTY** - Flat Finish

**AQUASEAL SILANE 20** - Flat Finish

**AQUASEAL SILANE 40** - Flat Finish

#### HORIZONTAL SURFACES

**PERMASEAL** - Semi-Gloss Finish

**PERMASHIELD 100** - Semi-Gloss Finish

**PERMASHIELD 200** - Matte Finish or High Gloss

**MONOCHEM 200** - Gloss

**PERMASHIELD PREMIUM** - Matte Finish or High Gloss

**AQUASEAL SILANE 20** - Flat Finish

**AQUASEAL SILANE 40** - Flat Finish

#### TECHNICAL SERVICES:

Technical assistance is available for architects, specifiers or applicators for any of our coatings or systems by contacting the manufacturer, Monopole Inc. You can also contact our representatives for application, specification, and field assistance when required.

#### TINTING:

Aquaseal Stain Semi-Transparent (7500, 7600) is short-filled 4 ounces per gallon and 3-4 ounces of color tint can be added.

Aquaseal Stain Opaque (8500, 8600) is short-filled 6 ounces per gallon and 5-6 ounces of color tint can be added.

**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.



Lions Gate Concrete



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