AQUASEAL STAIN®

TECHNICAL BULLETIN



SEMI-TRANSPARENT or OPAQUE • REGULAR or WATERPROOF

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 (120-180 grit surface profile) AQUASEAL STAIN must fully penetrate to perform as intended. If the surface is smooth or not water absorbent, acid etching, sand blasting or shot blasting is required to meet the surface criteria. Smooth surfaces require 2-3 etchings to achieve 120-180 grit surface profile.

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, concrete, brick, lightweight concrete, slump and regular block, precast panels, stucco, and porous tiles. For wood applications, 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 harmful solvents, toxic fumes or ingredients.
- · Easy to use.
- · Does not oxidize like paint.

PREPARATION:

- A. The surface must be dry (< 15% moisture), clean, and free from adhesion affecting contaminants, alkali, lime and efflorescence. All previous silicones, paints or other sealers must be removed.
- B. Allow the concrete and masonry to cure for 28 days prior to staining. This allows the initial moisture that is unavoidable in a newly built wall to escape. If this initial moisture causes efflorescence, the efflorescence must 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.
- C. Do not apply stain in windy conditions or if rain is expected within 24 hours because water can fade the color and prevent drying.
- Do not apply stain when the surface temperature is below 45°F, or above 95°F, or in direct hot sun.
- E. Prior to applying stain, all mortar joints should be sound. Cracks, holes or voids larger than hairlines (1/16") should be filled with a paintable patching material and allowed to cure.
- F. Horizontal surfaces: Make sure the surface is water absorbent and that there is enough surface profile (at least 180 grit) to allow the AQUASEAL STAIN to fully penetrate.

| TEC | CHNICAL DATA: | |
|-------|---|--|
| Com | position | 100% Acrylic Polymer |
| Solid | Is by weight Semi Transparent I | Base24% ± 2 |
| Solid | Is by weight Opaque Base | 32% ± 2 |
| | | 8.5 Lbs. |
| VOC | ; Level | < 50 g/l |
| Finis | h after application | Flat |
| | Water Penetration Tes | ts: Per (ASTM C 67-83) |
| After | | 98.6% Repellency |
| After | 2 hours | 98.5% Repellency |
| After | 5 hours | 98.1% Repellency |
| After | 24 hours | 98.0% Repellency |
| | | TM E 514-74) (Wind Driven Rain) |
| After | 1 day | No Penetration |
| After | 3 days | No Penetration |
| S4.00 | | Transmission: |
| Per (| ASTM E 398) | 3.0 ±0.5 Perms |
| Per (| ASTM E 96) | 5.0 ±0.5 Perms |
| | Accelerated | Weathering: |
| 1 | | TM D822, ASTM G23) |
| | After 3000 hours of | continuous exposure |
| N | No color change, no flaking or ch | nalking, No staining or discoloration |
| | Hydrogen Sulf | de Resistance: |
| Per (| | No staining or discoloration |
| | Reduction of Chlor | ide Ion Penetration: |
| Per A | | % Reduction@13-33mm penetration |
| | UV Res | |
| Per (| | No change in color retention |
| , | 10 March 10 | 2 2 2 |
| | | Resistance: |
| | | um Chloride Fog Solution) eteriorations, no efflorescence, and |
| | | r fading after 600 hours of exposure |
| | ١٩٥ ٥٥١٥ | i lauling after ovo flours of exposure |

APPLICATION:

Monopole, Inc. Requires a test patch to ensure the product meets all the established visual and performance criteria.

Polymerized ContentExcellent

Efflorescence Resistance

Before applying stain, thoroughly mix it for at least 5 minutes by hand 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.

MONOPOLE INC. UPDATED MARCH 2011 **TRANSPARENT FINISHES 09930**



APPLICATION HINTS:

- Do not allow the stain to run and backroll stained areas to avoid pooling or puddling. Also, ensure the stain has penetrated. Remove or wipe away excess material which may cause the stain to become glossy or tacky.
- 2. Feather edge the stain at the end of each pass.
- Do not let the edge of one pass dry before making the next pass.
- 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. When applied over highly porous surfaces or when water repellency is required, 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: Always test a small area first prior to

proceeding with entire application.

| Surface Type | Approximate Coverage | |
|-------------------------------|----------------------|-----------|
| Split face, concrete blocks, | 1st Coat | 2nd Coat |
| stucco, Mexican tiles | 120 - 160 | 160 - 200 |
| Precast concrete, poured | | 7000 |
| concrete, brick, adobe blocks | 230 - 260 | 300 - 350 |

The coverage rates are approximations. 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.

TINTING:

AQUASEAL STAIN Semi-Transparent (7500, 7600) is short-filled 4 ounces per gallon and 3-4 ounces of color tint can be added. Do not exceed 4 ounces of colorant.

AQUASEAL STAIN Opaque (8500, 8600) is short-filled 6 ounces per gallon and 4-5 ounces of color tint can be added (do not exceed 6 ounces).

Depending on the intended use of AQUASEAL STAIN, the following Monochem clear top coats may be used for added protection. 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 (Interior Only)
PERMASHIELD PREMIUM - Matte Finish or High Gloss
AQUASEAL SILANE 20 - Flat Finish
AQUASEAL SILANE 40 - Flat Finish

TECHNICAL SERVICES:

Contact Monopole, Inc. Monday through Friday at (800) 491-9977 for technical assistance on any Monochem coating or system. Monopole, Inc. has field representatives that can aid you in application, specifications, and field assistance.

LEED CREDITS:

AQUASEAL STAIN qualifies for earning LEED® credits for Indoor Environmental Quality, EQ 4.2 Low-Emitting Materials, based on low contribution of VOC.

SHELF LIFE:

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

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. But it is the end users responsibility to thoroughly test the product in the specific application to determine its performance efficacy and safety. 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 specific written statement of fitness for a particular use, MONOPOLE'S sole warranty is that the product will meet its current sales specifications. MONOPOLE specifically disclaims any other expressed or implied warranty, including the warranty of merchantability and fitness for use. The exclusive remedy and MONOPOLE's sole liability for breach of warranty is limited to a refund of the purchase price or replacement of product proven to be defective. In no event shall the seller be liable for any loss of profits or other consequential damages. Under no circumstance will MONOPOLE pay labor charges.

