



# AQUASTAIN HS

## WATER-BASED, DECORATIVE AND PROTECTIVE ACRYLIC STAIN

### PACKAGING

5 gal (18.9 L) pail

Code: TL2204505§HS (Std Colors)

Code: TL2204505§HS (Special Colors, MTO)

### CLEAN UP

Clean tools and equipment immediately after use with soap and hot water. Clean overspray or drips while still wet with soap and hot water. Dried material may require strong solvents or mechanical abrasion for removal.

### SHELF LIFE

1 year in original, properly stored, unopened package

### DESCRIPTION

AQUASTAIN HS is a water-based, acrylic stain used to protect and decorate vertical masonry and concrete surfaces.

### PRODUCT CHARACTERISTICS

#### FEATURES/BENEFITS

- Repels water
- Excellent adhesion
- Protects from carbonation
- Provides mildew and fungus growth resistant coating
- Breathable
- Freeze-thaw stable
- Outstanding color retention

#### PRIMARY APPLICATIONS

- Exterior and interior
- Concrete
- Concrete masonry units
- Stone and brick
- Stucco

#### APPEARANCE

AQUASTAIN HS is available in standard colors and tint bases for universal colorant systems. Special/custom colors are available with minimum quantity orders.

### APPLICATION PROPERTIES

These properties are based on laboratory conditions at 70 °F. Expect variation based on jobsite conditions.

<b>Solids content:</b>	55-60%
<b>Density:</b>	11.5 ± 0.5 lbs/gal (1.4 kg/L)
<b>Viscosity:</b>	1,500 to 2,000 cp (98 to 105 ku)
<b>VOC content:</b>	≤ 100 g/L
<b>Recoat:</b>	12 to 24 hours

### COVERAGE

Surface Texture	First Coat - ft <sup>2</sup> /gal (m <sup>2</sup> /L)	Second Coat - ft <sup>2</sup> /gal (m <sup>2</sup> /L)
<b>TAMMS H/P PRIMER</b>		
Porous	100 to 150 (2.45 to 3.68)	N/A
Smooth	200 to 300 (4.91 to 7.36)	N/A
<b>AQUASTAIN HS</b>		
Porous	100 to 150 (2.45 to 3.68)	100 to 150 (2.45 to 3.68)
Smooth	120 to 170 (2.94 to 4.17)	130 to 180 (3.19 to 4.42)

**Note:** Coverage rates are approximate and are for estimating purposes only. Surface temperature, porosity, and texture will determine actual material requirements. Apply samples to all surfaces to be coated, and obtain approval of architect or owner for the color, finish, water repellency, and coverage before proceeding with work.

## TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

Test Method	Test Property	Values
ASTM C418	Abrasion Resistance	0 mils abraded
N/A	Carbon Dioxide Diffusion	Diffusion coefficient . . . . . 1.1 x 10 <sup>-6</sup> cm <sup>2</sup> sec <sup>-1</sup> Diffusion resistance coefficient . . . . . 155,900 Klopfer criteria . . . . . passes
N/A	Flexibility	1" (25.4 mm) mandrel . . . . .no chipping or breaking
ASTM C666	Freeze Thaw Durability	After 300 cycles . . . . . 100.9%
Fed. Test 141, Method 6271	Fungus Growth Resistance	28 days . . . . . none
ASTM D2794	Impact Resistance	No chipping
ASTM C672	Scaling Resistance	Visual rating . . . . . 0 25 cycles, scaling mass . . . . . none
ASTM B117	Salt Spray Resistance 5% solution	2,000 hours . . . . .no adhesion loss @ 90°F ± 2°F
ASTM E514	Water Permeability	Dampness shows . . . . . none First water shows . . . . . none Back of wall in 4 hours . . . . . none
ASTM E96	Water Vapor Transmission	20 mil film . . . . . 12 to 14 perms
ASTM G26	Weatherometer	No crazing, cracking, chipping, or flaking @ 6,000 hours
TT-C 555b	Wind Driven Rain Resistance	Excellent

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## DIRECTIONS FOR USE

**Surface Preparation:** Cure new concrete and masonry surfaces for 28 days. Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and clean of dust, dirt, paint, efflorescence, oil and all other contaminants. Preparation should be done by mechanical means to achieve a surface profile equal to CSP 1 to 2 in accordance with ICRI Guideline 310.2. Properly clean area that has been profiled.

**Priming:** For concrete and masonry, especially in hot, windy conditions, priming with TAMMS H/P PRIMER is recommended.

**Mixing:** AQUASTAIN HS should be mechanically mixed using a low speed ¾" (19 mm) drill with a mixing paddle. Mix thoroughly to a uniform, smooth consistency. Do not aerate the mix.

**Application:** To spray AQUASTAIN HS, use airless spray equipment with a 0.025 to 0.035 in. (0.64 to 0.89 mm) orifice size spray tip. Spray AQUASTAIN HS using a "cross coat" technique (horizontal pass followed by a vertical pass). Avoid applying to excess, which can cause the product to run down the wall or puddle. Backrolling is recommended during application of the first coat. The second coat can be sprayed after the first coat is dry, approximately 12 to 24 hours. Do not backroll during the second coat. For hand application use brushes or rollers designed for latex paint. Dampen the brushes or rollers with clean water before use. When using rollers, uniform millage is achieved by rolling AQUASTAIN HS in one direction only.

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## PRECAUTIONS/LIMITATIONS

- AQUASTAIN HS is a water-based product and is not flammable.
- Provide adequate ventilation.
- Do not thin or dilute AQUASTAIN HS.
- Do not apply AQUASTAIN HS if rain is expected within 8 hours.
- Do not apply over frost filled surfaces.
- Do not apply if surface and ambient temperatures are below 45 °F (7 °C) or above 90 °F (32 °C).
- Store at temperatures between 50 °F to 90 °F (10 °C to 32 °C). Protect from freezing.
- Do not apply to non-absorbent materials such as glass, metal, glazed brick or glazed tile.
- Not for use on traffic bearing surfaces.
- In all cases, consult the Safety Data Sheet before use.

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