



# Acid Stain Data Sheet

Part # AS-AB, AS-AVO, AS-CG, AS-ES, AS-EL, AS-IB,  
AS-MB, AS-SGRN, AS-SR

**DESCRIPTION:** Concrete Solutions® Acid Stains enhance new and existing concrete by adding a variegated, translucent coloring effect to the surface. These coloring effects are a result of a unique formulation of blended acidic metallic salts. Acid stains become a part of the concrete surface wearing only as the concrete wears. Because of the nature of acid stains, the coloring may vary throughout the job and the final results cannot be guaranteed. It is always recommended to do a small test area to determine the final color before starting the installation. **For floors in need of repairs or resurfacing, it is recommended to apply Concrete Solutions Resurfacer followed by Concrete Solutions Spray-Top® before acid staining (see the Spray-Top Technical Data Sheet under Acid Staining and the Spray-Top DVD for how-to instructions).** Acid stain can also be applied directly over Resurfacer or 1/4" Stamping applications.

**TYPICAL USES:** Acid stains are used to provide variegated and translucent coloring effects to regular concrete and polymer concrete surfaces. They can be used straight out of the container or diluted from 1 part up to 20 parts water to achieve lighter or darker shades of color and applied in one or more coats. They can also be mixed together or applied over different colors of Spray-Top to create your own unique colors.

#### FEATURES & BENEFITS:

- Can be applied using an acid resistant pump-up sprayer, acid resistant scrub brush or Concrete Solutions sponge roller

#### CHEMICAL PROPERTIES:

#### Result

Coverage Rate per Gallon

150 – 200 sqft

#### TESTING AND MIXING:

**Read all cautions and Safety Data Sheets before any work is started. Always do a small test before project installation and have it approved. The coloring effect can vary depending on the age, texture, finishing techniques, and other variables within the concrete surface. When mixing colors, keep a record of the ratios mixed for future use and color matching.**

#### APPLICATION INSTRUCTIONS:

1. For Professional Use Only!
2. Protect all surrounding areas before staining. Rope off areas to be stained and keep all traffic clear of the area until the installation is complete. Wet floors can be slippery!
3. Wear suitable protective gear, read all cautions below and all Safety Data Sheets.
4. When going over regular concrete, Concrete Solutions Acid Stain will achieve the darkest color when used straight out of the container. For a lighter color or when going over Concrete Solutions Polymer Concrete or Spray-Top, acid stain can be used straight or diluted 1 part up to 20 parts with water.
5. Regular concrete must be cured a minimum of 28 days. Concrete Solutions Resurfacer or Spray-Top can generally be stained over within 12 to 24 hours.
6. Curing compounds, sealers and other membrane forming products applied to the concrete surface prior to staining will affect the ability of the stain to properly react with the concrete. Some concrete surfaces may be too hard to react with and may need to be made more porous to allow stain to react or may be resurfaced with Concrete Solutions Resurfacer and/or Spray-Top to achieve the look desired. Concrete surfaces must be clean and free of all foreign contaminants such as curing compounds, bond breakers, oil, sealer, dirt, paint, and cleaning residue. Pressure washing and/or additional cleaning methods may be required to totally clean the concrete surface of all contaminants.
7. Use Non Metallic Equipment. Acid stain will react with metals, therefore the use of brushes, brooms, sprayers and buckets that are non-metallic is recommended. An acid resistant pump up sprayer can also be used.
8. Always use caution when opening the containers of product. Do not allow containers to stand on untreated concrete areas after opening, as staining will occur if the material is spilled.
9. Always use in a well-ventilated area.
10. Always do a small test in an inconspicuous area before project installation to ensure approval and compatibility of all products and desired color. Read all labels and technical data sheets before using acid stain. Always check local codes for all Federal and State Regulations along with the appropriate safety standards. Dispose of left over stain product and/or stain residue in accordance with these regulations.
11. Start with a small test area. Choose an out of the way area. Because of the nature of all stains, a record of the mix ratios used should be made for future reference.

**CONCRETE SOLUTIONS® ACID STAIN (continued):**

12. Depending on the color desired, an application of two or more coats of stain may be required. For the best results, mop the residue off the first coat before applying a second coat. Coverage is approximately 150 – 200 sq. ft. per gallon, per application, depending on the porosity of the surface and dilution rate.
13. Apply Acid Stain using an acid resistant pump-up sprayer, an acid resistant scrub brush or the Sponge Roller. Scrub or roll the acid stain into the concrete as soon as it is applied to the concrete surface keeping the brush or roller in constant contact and motion with the surface. Keep a wet edge and a uniformly saturated surface. Spray more stain behind the scrub brush or roller to help hide brush or roller marks. DO NOT allow the stain to puddle, splash, or drip on the floor or treated surface as darkening and discoloration from the rest of the floor or treated surface will occur. When staining over polymer concrete or Spray-Top it is best to dampen the surface with water immediately ahead of the acid stain to achieve a more natural look and to avoid spray spots.
14. Remove any acid stain residue by mopping or wet scrubbing with an acid resistant broom and a neutralizing cleaner (such as 10 parts water to 1 part household ammonia), then rinse the surface until the rinse water is clean. When applying acid stain over Spray-Top, the residue should be mopped with water until clean. Do not scrub the surface to remove the residue over Spray-Top nor rinse with a hose or pressure washer (see the Spray-Top Technical Data Sheet under acid staining instructions for more information). All residues must be removed before any coating can be applied. Use caution when handling the stain residue and water drainage. Protect all adjacent foliage and soil from over-spray and runoff. Use an acid resistant wet/dry vacuum and follow all governmental regulations for disposal.

15. **Sealing:** Acid stained surfaces can be sealed with at least two coats of either Concrete Solutions Stamped Concrete Sealer or Concrete Solutions Acrylic Urethane for interior or exterior applications. NEVER APPLY ACRYLIC URETHANE OVER STAMPED CONCRETE SEALER OR VISA VERSA. For interior floors only, Sealcoat 1000 or WB Epoxy Clear can be used as a first coat and WB Urethane as the second coat where a water-based, low odor system is desired. USE AN AIRLESS OR HVLP SPRAYER WHEN USING SEALCOAT 1000 TO ACHIEVE THE BEST RESULTS. **Do not use WB Epoxy over Avocado or Sea Green, for they can turn blue.** When going over these colors use Sealcoat 1000 as the first coat and either WB Epoxy Clear or WB Urethane as the second coat. See the Concrete Solutions Stamped Concrete Sealer, Sealcoat 1000, Acrylic Urethane, WB Epoxy Clear and WB Urethane Technical Data Sheets for more information.

<b>Quick Guide to Sealing Acid Stain</b> NEVER APPLY ACRYLIC URETHANE OVER STAMPED CONCRETE SEALER OR VICE VERSA.	Interior Application	Exterior Application	Low odor Water-based
Stamped Concrete Sealer (1st coat) Stamped Concrete Sealer (2nd coat)	●	●	
Acrylic Urethane (1st coat) Acrylic Urethane (2nd coat)	●	●	
Sealcoat 1000 (1st coat) WB Urethane (2nd coat)	●		●
WB Epoxy Clear (1st coat) WB Urethane (2nd coat)	●		●

**NOT RECOMMENDED FOR:** Do not apply to concrete less than 28 days old. Do not use Avocado, SeaGreen or Island Blue for outdoor use. These colors can react with moisture in the concrete and over time can darken or turn black.

**COLOR OPTIONS:** Available in nine standard colors: Autumn Blaze, Avocado, Canyon Gold, Earthstone, English Leather, Island Blue, Midnight Black, Sea Green and Sunset Red

**SAFETY PRECAUTIONS: Health Considerations: Consult the Rhino Linings® Safety Data Sheets (SDS)**

Chemical systems require the use of proper safety equipment and procedures. Please follow the Rhino Linings® product SDS and Safety Manual for detailed information and handling guidelines.

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