

Acid Stain

DESCRIPTION: *Acid Stain* is a ready to use, penetrating product that reacts with concrete to produce a unique and permanent colored surface. Unlike other colorants *Acid Stain* penetrates the concrete surface to produce the aged appearance of timeworn patina. The color will last as long as the concrete surface remains intact. *Acid Stain* is available in a variety of colors and creates an antique colored finish when applied to concrete.

USES: *Acid Stain* can be used on both old and new interior and exterior concrete surfaces. Common areas of application include: patios, pool decks, driveways/walkways, plazas, etc. *Acid Stain* cannot be used to hide surface imperfections or to cover construction errors. The final color obtained is unique to each concrete surface and is dependent on the chemical composition, mix design, porosity, age, texture and color of the original concrete substrate.

FEATURES/BENEFITS: Permanently stains concrete surfaces. *Acid Stain* will not disrupt the appearance of the natural concrete substrate. Can be used on all types of concrete surfaces. Easy application and clean up. Colors may be blended on-site for custom projects. Provides the artist or contractor with a myriad of decorative options.

SURFACE PREPARATION:

Newly placed concrete: Newly placed concrete should be cured a minimum of 14 days. Micro toppings should be stained as soon as they are ready for foot traffic. Immediately prior to staining, the concrete must be thoroughly cleaned. The surface should be swept and then pressure washed. If needed use a high quality commercial detergent to facilitate cleaning. The surface must be rinsed after cleaning until the rinse water is completely clean. Do not clean concrete by acid etching.

Existing (old) concrete: Existing concrete must be cleaned immediately prior to staining so that the surface is completely penetrable. Test the surface by applying drops of water. The water should immediately darken the concrete and be readily absorbed. If the water beads and does not penetrate, additional surface preparation is needed. To remove dirt and contaminants, detergents and other commercial cleaners may be used. Pressure washing or scrubbing with a rotary floor machine is sometimes required. Do not clean concrete by acid etching.

After cleaning, the surface must be rinsed thoroughly until the rinse water is completely clean. Wet vacuums may be used to remove the dirty water. After drying, the surface must be retested using the "water drop test" to ensure adequate surface penetration. Additional spot cleaning and rinsing may be required. Concrete that has been previously coated with liquid curing materials, paints, coatings, sealers, waxes or water repellants, or surfaces that cannot be successfully cleaned by other methods, must be sandblasted.

APPLICATION: All application and surface preparation procedures and equipment should be tested for suitability and acid resistance before use. Suitable protective gear should be worn and government regulations and all applicable safety requirements should be followed. Refer to product [Material Safety Data Sheet](#) (MSDS) for complete health and safety information. Mask off any areas that should not come into contact with *Acid Stain*. Apply stain with an acid resistant hand pump sprayer, sponge, lambs wool applicator, mop, roller or brush following the recommended coverage rates. To avoid lap marks, reacted solution should not be spread to new work sections, but should only be overlapped with and worked into the

edges of the adjacent, still wet, previously stained areas. A wet edge must be maintained. *Acid Stain* should be allowed to remain in contact with the concrete until the desired effect is obtained, typically a minimum of four hours. For both single and mixed colour applications, the stained surface should be washed between applications to fully evaluate the colour effect before an additional coat is applied.

COLOR: Available in Black, Walnut, Cedar, Terra Cotta, Copper, Avocado, Citrus and Teal.

LIMITATIONS: The colour obtained and depth of penetration is not predictable. For this reason, prior to general application, a representative jobsite test section must be produced and approved on each individual concrete surface for each colour to verify and approve suitability. There are instances where it is not possible to successfully stain certain concrete surfaces. Concrete from different loads or pours and in patched areas may appear significantly different in colour from adjacent areas when chemically stained.

COVERAGE: Average coverage is 75-100 sq/ft per liter (350-400 sq/ft per U.S. gallon) per coat. Coverage will vary widely depending on the porosity and texture of the surface, as well as the preparation and application techniques. Material can be diluted up to 5:1. Diluting the material will cause variation in the final colour. The longer *Acid Stain* is left on the concrete, the more intense the colour will be. Pre-wetting the surface may reduce the occurrence of lap marks, but also will decrease the colour intensity of the stain.

RINSING/NEUTRALIZATION:

After the final application of *Acid Stain* has remained on the surface a minimum of four hours, all un-reacted Acid Stain must be neutralized using a solution of baking soda and water, using one pound of baking soda per 18.9 L (5 U.S. gallons) of water. Pour the solution onto your work area and gently brush over the entire space with a broom. The surface should then be rinsed several times with clean water to remove all residues. All run off should be collected by wet-vacuuming or absorbing with an inert material.

SHELF LIFE: 1 year when stored under normal conditions away from direct sunlight.

PACKAGING: 1L, 3.78 L, 20L.

SEALING: To protect the finished project, use either *S815* or *S830* on exterior projects and *Clarity Clear* or *Holdout* on interior projects. Allow the concrete to dry thoroughly prior to sealer application.

PRECAUTIONS: All equipment and containers should be tested for acid resistance prior to use. Metal containers should never be used as they will rapidly corrode and change the colour of the stain. Avoid direct contact with this product as well as inhalation of vapors. DANGER! CORROSIVE MATERIAL. CAUSES SEVERE EYE IRRITATION, WITH POSSIBLE BLINDNESS. CAUSES EYE AND SKIN BURNS. MAY BE FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. Refer to product material safety data sheet (MSDS) for complete health and safety information.

MSDS Sheets for Acid Stains are available upon request