



ETCH STAIN Installation Guide

PRODUCT DESCRIPTION

ETCH STAIN is a combination of acid solution, wetting agents, and metallic ions. ETCH STAIN chemically reacts with Portland cement to form permanent translucent colors.

COVERAGE RATES AND PACKAGING

ETCH STAIN

200-250 ft/gal

Sold as 1.0 Gallon Unit

SUBSTRATE REQUIRMENTS

Concrete

Concrete shall be structurally sound and stable. Concrete shall be free of dust, dirt, grease, contamination, surface laitance, and other potential bond-breaking substances that could impair adhesion. If your concrete surface is in good condition, has never been treated with integral or surface treatments such as a curing agents, is clean (scrub with V-100 and rinse well) and has cured to a uniform light color (free from all dark moisture and alkali spotting), no preliminary treatments are necessary. Just sweep clean and begin application of Etch Stain. **DO NOT ACID ETCH PRIOR TO APPLYING!!!** Any surface that has had a sealer or other material applied over it that prevents Etch Stain from reacting with the concrete should be prepared by grinding to allow penetration into concrete. Etch Stain will not work if it can not react with the concrete. Substrate and ambient temperatures must be above 50°F (10°C), and not exceed 95°F (35°C) during installation of primer. Environmental conditions must not be near the dew point during installation of ETCH STAIN or subsequent coatings and toppings.

Other Substrates

Consult with a Versatile Building Products representative for recommendations over other substrates.

STEP 1) INSTALLATION OF ETCH STAIN

(Note: Dry time is effected by environmental conditions. Do not force dry.)

EQUIPMENT FOR APPLICATION

Sprayer: Larger applications are done with garden-type (Hudson) sprayers (must be plastic or stainless steel). Container and Brush: This is used for smaller projects. Use a plastic tub or plastic dish pan large enough to permit easy dipping with brush. **DO NOT USE A METAL CONTAINER.** Note: If possible, use a roller dolly fitted with rubber casters to move container over surface. The brush should be 10" to 12" with medium soft bristles (broom type) fitted with a long handle.

Application

It is strongly recommended that a small out of the way section of the concrete be tested first to see if a proper reaction occurs. Be sure to let the stain dry and then rinse carefully before deciding on the effectiveness of the stain. If the stain does not 'take', you have concrete that is dirty, sealed, or is too heavily aged to have reactive materials available. If using a sprayer, spray stain evenly and continuously over surface, but do not puddle the stain. If a puddle should occur. do not attempt to correct it. When first application of stain is dry, apply second application in same manner as first. When applying second application, if color shows considerably lighter on certain areas when wet with stain, apply additional stain to light area. Again, do not attempt to correct any puddles that may occur. If using brush, apply stain liberally and quickly to area which can be covered by a brush full of stain. Rotate brush gently in a circular motion, keeping it in contact with the surface to avoid spatters and runs. Keep stain container on concrete, close to work surface to prevent dripping. Stain will foam for a few seconds as it reacts with the concrete. As foaming takes place, continue expanding area very slightly to outer edges. When foaming stops, do not spread stain to uncolored section. Use a fresh brush full of material to stain warranty surface, working well back into completed section to avoid lap marks. Maintain a wet edge throughout the procedure. Do not track stain into pavement which is to remain uncolored.

EQUIPMENT FOR REMOVAL OF RESIDUE:

Interior: Use an ordinary mop and wringer. A metal pail is acceptable for use. If available, a wet vacuum may be used more effectively. Exterior: A hose and any medium stiff fiber scrub brush or broom. For large areas, use a deck scrub fitted with a long handle.

REMOVAL OF RESIDUE:

Allow applications of stain to dry before removing residue. If area is to be finished with Versa-Glaze "Wet Look" Sealer, you can test uniformity and depth of color by wetting surface in several places with a wet cloth. If color is not sufficiently deep or uniform, apply a third application of stain. In warm weather apply stain in early morning when concrete is coolest. There is powdery residue formed from the reaction of Etch Stain on concrete. This must be removed after final application of stain is dry. Flush area with water (do not use soap) and scrub with a stiff brush. Remove water by mop, vacuum, squeegee. Etc. Because the rinse water may be slightly corrosive and have the capacity to stain, special care must be taken around plants and on interior application

The following cautions should be taken to prevent deterioration to the environment and infrastructure:

- 1) All run-off and rinse water should be close to a neutral pH
- 2) Rinse water containing hazardous material should be collected and disposed of in a manner compliant with local, state, and federal regulations

The following recommendations are made to facilitate compliance, but will not apply to all materials and operations:

- 1) Collect run-off and rinse water into a suitable storage container, and neutralize acidic pH with sodium bicarbonate (baking soda.) Check pH with litmus paper, available at any location that sales pool supplies.
- 2) Once sediment has fallen out of solution, the solution may be siphoned off for disposal.
- 3) In most cases, the neutralized solution may be disposed through a treated sewer line.
- 4) In most cases, the hardened sediment may be disposed of in normal refuse receptacles.

CLEANUP

Immediately cleanup splatter marks with water. Clean tools with mild soap and water before primer dries.

ADDITIONAL CAUTIONS AND RECOMENDATIONS

- Do not force dry
- Do not dilute with water
- Coverage rates may vary
- Mask all areas that need protection
- Use approved carbon based filtration mask when applying
- Always wear protective clothing and equipment as required by OSHA and as necessary
- Read Material Safety Data Sheets before commencing work
- Etch Stain will not work if it can not react with the concrete
- Use spiked shoes or cleats when walking into wet material