



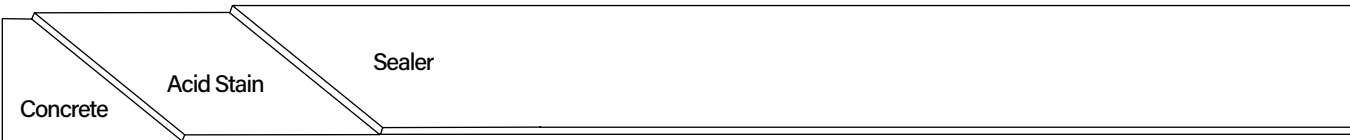
Description

The Acid Stain Prep & Seal System is a process of preparing the concrete and applying Westcoat's acid based stain and sealer. The Acid Stain is made from an acid solution, wetting agents and metallic ions. When it is placed on concrete, it chemically combines the metallic ions with particles in the concrete to form oxides. The stain is then sealed for protection.

Uses

The Acid Stain Prep & Seal System is designed to create a mottled effect on textured concrete surfaces. This system can be used on exterior projects including restaurants, cafes, hotels, pool decks, patios and driveways, where leaving an existing texture is desired. Recommended for use on exterior floors where good durability and solid UV Resistance is desired.

System Overview



System Data		
Coverages	Acid Stain 200-400 ft ² per gallon	Sealer 200-300 ft ² per gallon
Components	SC-30 Acid Stain SC-70 Acrylic Lacquer Sealer	Shelf Life 3 years 5 years

Advantages

Durable • Mottled Finish • Unique Colors • Penetrating • Long Lasting • Chemical Resistant • UV Resistant

Inspection

Concrete must be clean, dry and free of grease, paint, oil, dust, curing agents, laitance or any foreign material that will prevent proper adhesion. The concrete should be at least 2,500 PSI, porous and able to absorb water. A minimum of 28 days curing time is required on all concrete. Prior to starting work, test existing concrete slab for efflorescence, moisture and hydrostatic pressure.

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**SYSTEM
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PROTECTIVE SEALERS & STAINS

Acid Stain

Prep & Seal

Moisture

All concrete should be tested for moisture before applying a seamless coating. If moisture emissions exceed 5 lbs/1000 square feet (ASTM F1869) or if the relative humidity (RH) exceeds 75% (ASTM F2170), contact the manufacturer before application.

Preparation

Prepare concrete to a profile equal to CSP 3 as specified by ICRI. Prepare surface by power washing and power scrubbing to achieve a clean, uniform surface that will allow the Acid Stain to soak in and react with the cement in the concrete. Acid washing is not recommended and will be detrimental to the final effect. Clean surface as needed with TSP and/or a degreaser, then rinse completely and scrub several times with clean water.

Concrete Repair

For concrete that needs repairs beyond just dormant cracks, TC-23 Mortar Mix can be used. TC-23 is designed to be used as a general concrete repair mix for horizontal and vertical applications and can be used as a patching/underlayment material under most Westcoat systems. Please refer to the TC-23 Mortar Mix Product Specification Sheet for details.

Applying Product

Using an acid resistant garden sprayer, spray the SC-30 Acid Stain onto the surface evenly. Immediately after spraying, brush or broom the material into the concrete in a circular fashion. The surface may be pre-dampened to increase the movement of the acid.

SC-30 can be thinned with up to 5 parts of water for staining concrete. Always do a sample before beginning the job. Thinning will effect the depth of color. The coverage will vary depending on the surface. Apply as thin as possible at 200-400 square feet per gallon on most surfaces, depending on strength, porosity of the concrete and desired color.

Whether brushing or brooming, do so consistently, as it will effect how the acid reacts. As you brush the acid, it will foam and react with the concrete. Varying degrees of foaming will occur and some colors may not show right away. Apply fresh acid ahead of the brush. The foamed material should not be applied to an untreated area, as it will not chemically stain the surface properly. Additional applications may be done to darken the surface further after the first application has dried. (You may also work 2 to 3 colors into the surface to achieve a unique look).

Once the surface has reacted and dried (usually 2-6 hours), you must scrub and rinse off all residue completely. This could be considered the most difficult part of the application. You can take advantage of this time to confirm the color, as the water will simulate the "wet look" of most sealers. Additional stain may be applied at this point, but you need to rinse again. Make sure to scrub, mop and completely rinse the surface 2-3 times and wet vacuum until dry. Be sure to safely and properly dispose of the residue.

Failure to completely remove all residue prior to sealing the surface may cause appearance defects, reduced durability and delamination of the sealer.

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Sealer

Apply SC-70 by spraying, brushing or rolling with a 1/2 to 3/4 inch nap, non-shedding roller cover at the rate of 200-300 square feet per gallon. For added slip resistance add up to 1 quart of CA-30 Safe Grip per 5 gallons of sealer. Silica sand may be broadcast when extra traction is needed. Quantities may vary.

Sealer Dry Time

Allow 2-6 hours between coats. Allow 12-24 hours at 70 degrees before light foot traffic. Normal foot traffic may be permitted after 24-48 hours. For vehicular traffic, allow a minimum of 72 hours. See Individual Product Specification Sheet on each sealer for accurate dry times.

Optional Materials

Cement Options

- TC-23 Mortar Mix may be used as a general concrete repair mix for horizontal and vertical applications and can be used as a patching/underlayment material.

Sealer Options

- SC-71 High VOC Acrylic Lacquer Sealer can be a lower cost option in States/Counties that allow a sealer with higher Volatile Organic Compounds (VOCs).
- SC-65G WB Gloss Polyurethane Sealer and SC-65SG WB Semi-Gloss Polyurethane Sealer can be used for a low odor, solvent free, mar and chemical resistant sealer.
- EC-95G Gloss Polyurethane Topcoat can be used in lieu of SC-70 when a solvent-based polyurethane is required.

Skid Resistance

- CA-29 Mini Safe Grip, CA-30 Small Safe Grip or CA-31 Large Safe Grip can be added to the final coat of sealer for added skid resistance.

Clean Up

Uncured material can be removed with soap and warm water. If cured, material can only be removed mechanically or with an environmentally safe solvent.

Maintenance

Exterior floors can be swept daily with water and a broom. For tougher dirt or grease, use Westcoat CA-24 Degreaser diluted with water 20:1 and a soft bristle brush or broom. Be sure to rinse well. To remove calcium or lime build up, brush 100 grain vinegar over the surface. Be sure to rinse any residue.

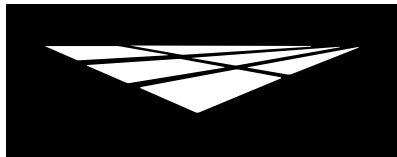
The Acid Stain System should be inspected for wear every 2 to 4 years. The system should be resealed with the appropriate Westcoat clear sealer every 3 to 5 years depending upon traffic and UV exposure. Contact the original Installer of Westcoat for complete re-coating instructions.

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Health Precautions

Inhalation of vapor or mist can cause headache, nausea, irritation of nose, throat and lungs. Prolonged or repeated skin contact can cause slight skin irritation.

SC-30 contains hydrochloric acid. Wear goggles and rubber gloves when handling. Mask out all surrounding surfaces and be sure that area is well ventilated. Store unused material in plastic containers only.

Be sure to extinguish all pilot lights and sources of ignition. Ventilate the area prior to starting the job. SC-70 fumes are **EXTREMELY FLAMMABLE**.

Limitations

- This system is designed for professional use only.
- Read Product Specification Sheets for every product you will be using before beginning the project.
- Do not apply at temperatures below 50°F or above 90°F.
- Be sure to paper off any areas that you do not want stained.
- Will not hide imperfections or stains in concrete.
- Product will stain concrete and can produce a mottled look. Colors and effects will vary.
- Acid Stain will fade with prolonged exposure to sunlight.
- Older concrete may not accept stain.
- Sealers will make the surface slippery, please be aware of the existing texture of the concrete and how the sealer will affect the look and feel.
- SC-70 provides only a basic chemical resistance. For greater chemical resistance, please contact Westcoat.
- Approval and verification of proposed colors, textures and slip resistance is recommended.
- Do not allow Westcoat products to freeze.

Slip Precaution

Westcoat Specialty Coatings Systems highly recommends the use of a slip-resistant additive to all coatings/systems that may be exposed to wet, oily, greasy or slippery conditions. It is the end user's responsibility to provide a flooring system that meets current safety standards. Westcoat and its distributors will not be responsible for injury incurred during a slip and fall incident. For the current coefficient of friction requirements, please consult your local building codes.

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