

Description

Westcoat's Water-Based Stain Grind & Seal System is a process of grinding the concrete and applying a water-based stain and sealer. There are no acidic ingredients used and the stain is low in VOC making it a more environmentally friendly system.

Uses

The Water-Based Stain Grind & Seal System is designed for interior applications where a colored stain is desired. This is a light duty system, designed for residential interior floors with light foot traffic. The standard sealer in this system is EC-11, which is suitable for light duty traffic areas. Alternative sealer options EC-32, EC-95G, EC-95F and SC-65 are suitable for medium duty traffic areas. This system is not intended for use in heavy traffic areas or with vehicular traffic.

System Overview



System Data		
Coverages	Water-Based Stain 600-1000 ft ² per gallon	Sealer 300-600 ft ² per gallon
Components	SC-35 Water-Based Stain EC-11 WB Epoxy Topcoat	Shelf Life 2 years 3 years

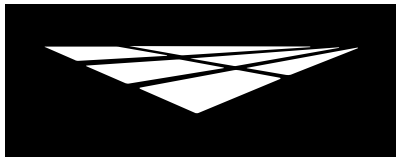
Advantages

Low VOC • Light Durability • Renews Old Concrete • Low or High Gloss Sealers • Easy to Use • Wide Array of Colors • No Rinsing Needed • May Contribute to LEED Credits

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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SURFACE COAT
PROTECTIVE SEALERS & STAINS

Water-Based Stain Grind & Seal

Concrete Patch

Before or after grinding, the concrete can be patched with TC-29 Concrete Patch. In a clean, dry bucket add four parts TC-29 Concrete Patch to one and a half parts water (by Volume) or a ten pound bag to 40-50 ounces of water, depending on the desired consistency. Mix thoroughly for 1-2 minutes with a low rpm drill. Allow 2-4 hours at 72 degrees before grinding. Cracks, spalls, holes and pits should be overfilled and allowed to dry properly. This remedial approach to patch cracks is not guaranteed and it should be noted that when the substrate moves, the crack may reappear. Repaired areas will be visible.

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.

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.

Preparation

Prepare surface by diamond grinding with 60-80 grit tools to achieve a clean, uniform, porous surface that will allow the Water-Based Stain to soak into the concrete. Sweep and vacuum surface entirely. Any dust or contaminants will deter adhesion.

Applying Product

Apply SC-35 using a pump sprayer, airless sprayer, brush or broom. Strain or filter material before pouring into sprayer to avoid clogging. For a mottled effect, use water to pre-dampen the surface before, or in conjunction with the stain. Multiple colors and various amounts of water may be applied at the same time for a variegated finish. Water-Based Stain can be thinned using water, up to equal parts, to effect the depth of the color.

The coverage will vary depending on the surface. Up to 1000 square feet per gallon on a smooth surface and between 600-800 square feet per gallon on rough surfaces. Product performs best if applied in thin even coats. When temperatures are above 80 degrees, it may be necessary to dampen the surface prior to application to prevent material from drying instantly.

Sealer

Mix EC-11 (2 parts A with 1 part B together) thoroughly, in a clean bucket. Mix slowly for at least 3-5 minutes and until completely combined. Only prepare the amount that you can use in 4 hours. You may thin up to 50% with water. EC-11 can be applied by rolling or spraying and backrolling with a 3/8 inch nap, non-shedding roller cover at a rate of 300-600 square feet per gallon.

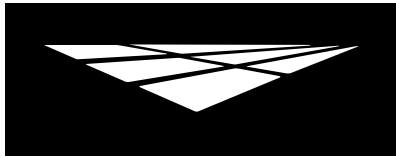
For added slip resistance, add up to 1 quart of CA-30 Safe Grip per 3 gallons of sealer. #30 silica sand may be broadcast when extra traction is needed. Quantities may vary.

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Water-Based Stain Grind & Seal

Sealer Dry Time

When using EC-11, allow 1-4 hours between coats and 12-24 hours before light foot traffic. Normal traffic may be permitted after 24-48 hours. Allow 72 hours before placing heavy objects on the surface.

Clean Up

Uncured material can be removed with soap and warm water. If cured, material can only be removed mechanically.

Optional Materials

Concrete Patch

- TC-29 Concrete Patch can be used to fill cracks, spalls, holes and pits.

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-65G WB Gloss Polyurethane Sealer, SC-65F WB Flat 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-32 Clear Epoxy Topcoat can be used in lieu of EC-11 when a 100% solids epoxy topcoat is required.
- EC-95G Gloss Polyurethane Topcoat can be used in lieu of EC-11 when a solvent-based polyurethane is required.
- EC-95F Flat Polyurethane Topcoat can be used over EC-95G Gloss when a low gloss, solvent-based polyurethane topcoat 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.
- CA-33 Aluminum Oxide can be used for skid resistance in heavy traffic areas.

* Please read Product Specification Sheets on these products prior to use. SC-65F WB Flat Polyurethane Sealer has a likelihood of turning white when applied directly over a substrate with moisture. Do not apply over an unsealed surface.

Maintenance

Interior Floors can be dust mopped daily or mopped using a neutral pH cleaner. For more information on floor care and maintenance, please refer to the General Maintenance sheet.

The Water-Based 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.

Be sure to extinguish all pilot lights and sources of ignition and ventilate the area prior to starting the job. Acetone 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.
- For interior use only.
- 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.
- Water-Based Stain will fade with prolonged exposure to sunlight.
- 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.
- Approval and verification of proposed colors, textures and slip resistance is recommended.
- Do not allow Westcoat products to freeze.
- Not intended for use in heavy traffic areas or with vehicular traffic.

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