



ABOUT FAST STAIN:

Enhance the color of concrete floors quickly and easily with Westcoat Fast Stain – an environmentally friendly, solvent soluble, deep penetrating powdered dye. For use on interior concrete, Fast Stain dries to the touch in seconds when mixed with acetone and offers a quick and easy installation process. Fast Stain can be used as a primary coloring system and is perfect for polished concrete or grind and stain systems.



MAKE YOUR MARK.

- Durable
- 12 colors
- Fast Drying
- Compatible with a variety of sealers
- Available in 12 colors
- Low VOC
- May contribute to LEED credits
- Cost-effective
- Various gloss options



FOR PROFESSIONAL USE ONLY.





FAST STAIN GRIND & SEAL

Fast Stain Grind & Seal System is a process of grinding the concrete and applying Westcoat's SC-36 Fast Stain acetone dye and choice of Westcoat protective sealer. There are no acidic ingredients used, and contains low VOC, making it a more environmentally friendly system. Designed to be used directly over existing concrete on interior applications. A perfect way to color plain or old concrete in showrooms, salons, restaurants, offices, and residential and commercial concrete floors. Recommended for use on interior floors with medium to heavy foot traffic.

Fast Stain Grind & Seal



Grind Stain Protective Seal

FAST STAIN POLISH

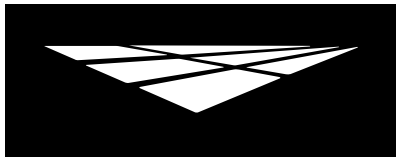
The Fast Stain Polish System incorporates Westcoat SC-21 Lithium Silicate and SC-36 Fast Stain into a polishing system that provides a long-lasting concrete surface with varying degrees of gloss and color. The Fast Stain Grind & Polish System is designed to revitalize and transform concrete into a reflective semi-impervious surface. For use over existing interior concrete substrates such as garage floors, restaurant floors, and showrooms, it can be installed in both commercial and residential environments.

Fast Stain Polish



Grind Stain Polish Polishing Guard





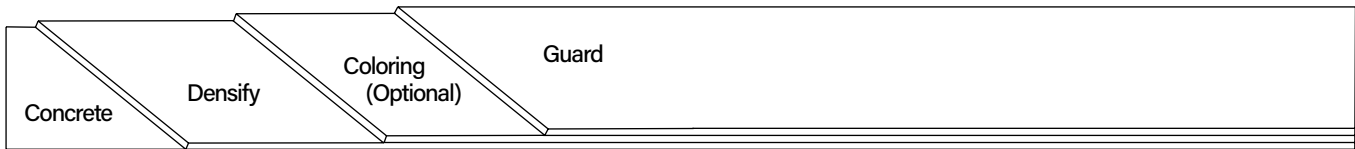
Description

The Fast Stain Polish System incorporates Westcoat’s SC-21 Lithium Silicate, SC-36 Fast Stain and SC-24 Polish Guard, into a polishing system that provides a long lasting concrete surface with varying degrees of gloss and color.

Uses

The Fast Stain Polish System is designed to revitalize and transform concrete into a reflective semi-impervious surface. For use over existing interior concrete substrates such as garage floors, restaurant floors and showrooms. It can be installed in both commercial and residential environments.

System Overview



System Data			
Coverages	Densify 200-400 ft ² per gallon	Coloring (Optional) 200-400 ft ² per gallon	Guard 2000-2500 ft ² per gallon
Components	SC-21 Lithium Silicate SC-36 Fast Stain TC-29 Concrete Patch SC-24 Polish Guard		Shelf Life 3 years 5 years 1 year 3 years

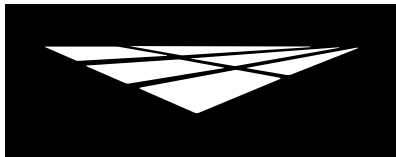
Advantages

Cost Effective • No Delamination • Unlimited Colors • Highly Decorative • Low Maintenance • Breathable System • Various Degrees of Gloss

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, 3½ inches thick and meet local building codes. A minimum of 28 days curing time is required on all concrete. Prior to starting work, be sure to examine the floor for any metal, rebar or other foreign material that may damage diamond tooling. Prior to application, be sure to determine the desired aggregate exposure, reflective clarity and reflective sheen. For best results, determine the hardness of the concrete by utilizing the MOHS Hardness Test Kit.

DISCLAIMER: PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER OF WESTCOAT, SHALL BE LIMITED SOLELY TO THE REPLACEMENT OF ANY DEFECTIVE MATERIAL OR A PAYMENT BY THE MANUFACTURER IN AN AMOUNT EQUAL TO THE COST OF THE ORIGINAL MATERIAL.



westcoat[®]
SPECIALTY COATING SYSTEMS

**SYSTEM
SPECIFICATION**

SC

SURFACE COAT
PROTECTIVE SEALERS & STAINS

Fast Stain

Polish

Preparation

Remove existing floor coatings, paint and all non-concrete materials. All debris and construction materials should be removed from the surface.

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.

Grind

Begin with 30/40 grit metal bond diamonds or lower, to cut the floor at the desired level. Broom and vacuum to remove any residual dust. For best results, clean floor with an autoscrubber after each step.

Patching

Treat voids, spalls and other imperfections after the first grind with metal bond diamonds. Cut and clean out imperfections, such as spalls, cracks, etc., before applying 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. Lightly dampen the substrate with water and apply TC-29 with a trowel or putty knife. Cracks, spalls, holes and pits should be overfilled and allowed to dry properly. Allow 2-4 hours at 72 degrees before grinding. This remedial approach to patching cracks is not guaranteed and it should be noted that when the substrate moves, the crack may reappear. Repaired areas will be visible.

2nd Grind

Reduce the coarseness of the diamonds to 60/80 grit metal bond diamonds and cut the entire floor. Once complete, broom and vacuum to remove dust.

2nd Patching

If necessary, patch any cracks or chips that were removed during the grinding process. Follow the same instructions as the first patching step. If additional patching is required, proceed with another pass of 60/80 grit metal bond diamonds and vacuum to remove dust.

Densify

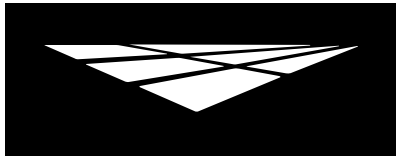
Apply SC-21 Lithium Silicate at a rate of 200 to 400 square feet per gallon, wetting the surface evenly. Do not allow the SC-21 to puddle. For best results, spray the densifier and spread with a microfiber pad or broom, keeping it wet for 20 minutes. When applying to a very porous surface, a second coat may be applied after the first coat has dried. Allow the SC-21 to dry before continuing. Proceed with another pass of 60/80 grit metal bond diamonds and vacuum to remove dust.

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Transition

Once all patching and densifying is complete, grind the entire floor with 100 grit ceramic transitional diamonds. Broom and vacuum the entire floor to remove dust.

Polishing

Continue the polishing process with 100 grit resin, then move to 200 grit resin and then 400 grit resin. Be sure to clean the floor after each pass to remove all dust. After the 400 grit resin, you are ready for coloring. Be sure all dust has been removed and the surface is clean, prior to staining.

Coloring (Optional)

The Fast Stain should be applied after using 400 grit resin diamonds. This will allow the Fast Stain to penetrate and to be polished up to meet the desired gloss.

Mix SC-36 Fast Stain with acetone and place material into a solvent safe, pump style sprayer. Apply at a rate of 200 to 400 square feet per gallon. Coverage will vary due to porosity and desired effect. Let the SC-36 dry for 20 minutes before applying additional colors. Be sure to cross ventilate and allow the solvent to dissipate prior to polishing.

Final Polish

Continue to polish with 800 grit resin. Once polishing is complete, broom and vacuum to remove dust. Fast Stain may be reapplied to achieve the final color desired. For a higher gloss level, polish up to 3000 grit. Be sure to clean and remove all dust prior to applying Guard.

Guard

SC-24 Polish Guard can be applied once the floor is polished to the desired level. Before applying, be sure the floor is clean and free of dirt, dust or debris. For best results, thin SC-24 with equal parts water, spray material onto the surface and spread thin and evenly with a microfiber pad.

Allow the SC-24 Polish Guard to dry completely before burnishing. Additional coats may be applied. Burnishing is recommended in between coats. For best results, burnish the same day.

Burnish

Once guard is completely dry, burnish with 800 and then 1500 burnishing pads. If the floor was polished greater than 800 grit diamond resin, use a burnishing pad that is equal or greater to the highest grit resin used. Be sure to clean pad between each diamond change.

When final burnish is completed, you can reoccupy the space.

Optional Materials

Cement Options

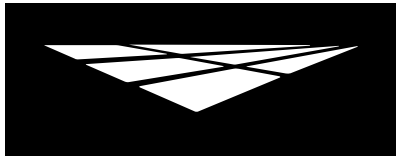
- TC-23 Mortar Mix may be used as a general concrete repair mix for horizontal and vertical applications and can be used as a patching/underlayment material.

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Fast Stain

Polish

Maintenance

The Fast Stain Polish System is a low maintenance flooring system, but still requires basic care and scheduled cleaning. Floors should be swept daily with a dust mop or microfiber pad. Spills should be cleaned up promptly.

Additional cleaning with water and/or a pH neutral cleaner may be performed as needed. Be sure to test any cleaning agents in an inconspicuous area prior to use. Polished floors can be rejuvenated by repeating the final steps of the polishing process. In some cases, simply burnish with a high speed burnisher equipped with a diamond impregnated pad to rejuvenate the gloss.

SC-24 Polish Guard can be applied quarterly or as required per scheduled maintenance. Floors should be scrubbed and cleaned before reapplying SC-24 Polish Guard.

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. 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 80°F.
- For interior use only.
- Use dustless equipment when possible.
- Concrete contains silicas. Dust masks or respirators should be used.
- 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.
- Fast Stain will fade with prolonged exposure to sunlight.
- Gloss and results will vary as concrete varies.
- Not all concrete can be polished.
- Minimal chemical resistance.
- Approval and verification of proposed colors, textures and slip resistance is recommended.
- Do not allow Westcoat products to freeze.

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SECTION 033543

POLISHED CONCRETE FINISH

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes: Polished Concrete Finish System - Westcoat Fast Stain Polish System, a complete polished concrete system using multiple step mechanical process, concrete densifier, optional concrete dye stain and polish guard in accordance with the specified requirements to produce:
1. Aggregate Exposure [A] [B] [C]
 2. Concrete Appearance [1] [2] [3] [4]
 3. [] SC-36 Fast Stain (Dye Stain)

1.2 DEFINITIONS

- A. Terminology: As defined by Concrete Polishing Council (CPC) glossary.
1. Definitions.
 2. Aggregate Exposure Chart.
 3. Concrete Appearance Chart.

1.03 RELATED SECTIONS

1. Section [01 33 00 Submittal Procedures]
2. Section [03 01 30 Maintenance of Cast-in-Place Concrete].
3. Section [03 30 00 Cast-in-Place Concrete]
4. Section [07 91 16 Joint Fillers]
5. Section [09 61 19 Concrete Floor Staining]

1.04 REFERENCES

- A. American Concrete Institute
1. ACI 302. 1R, Guide for Concrete Floor and Slab Construction

1.05 SUBMITTALS

- A. Product Data: Manufacturer's technical literature for the following:
1. Densifier: SC-20 Sodium Silicate or SC-21 Lithium Silicate
 2. Polish Guard: SC-24 Polish Guard
 3. Optional Dye Stain: SC-36 Fast Stain
 4. Dye Stain Color Chart: SC-36 Fast Stain
- B. Polisher/Applicator Qualifications: Data for company, principal personnel, experience, and Westcoat Qualified Contractor/Applicator Status.

1.06 QUALITY ASSURANCE

- A. Polisher Qualifications:
 - 1. Experience: Company that has successfully completed five projects similar in design, products, and extent to scope of this Project; with a record of successful in-service performance; and with sufficient production capability, facilities, and personnel to produce specified work.
 - 2. Polished Concrete Contractor must be a Westcoat Qualified Contractor/Applicator (QCA).
- B. Manufacturer Qualification:
 - 1. All materials used in the Polished Concrete System shall be manufactured and provided by a single manufacturer to ensure compatibility.
 - 2. Minimum 5 years documented experience in producing concrete materials.
- B. Field Mock-up: Before performing work of this Section, provide following field mock-up to verify selections made under submittals and to demonstrate aesthetic effects of polishing. Approval does not constitute approval of deviations from Contract Documents, unless Architect specifically approves deviations in writing.
 - 1. Form, reinforce, and cast concrete slab for 10 foot square field mock-up.
 - 2. Concrete shall be same mix design as scheduled for Project.
 - 3. Placement and finishing work shall be performed by same personnel as will place and finish concrete for Project.
 - 4. Mock-up shall be representative of work to be expected.
 - 5. Perform grinding, honing, and polishing work as scheduled for Project using same personnel as will perform work for Project.
 - 6. Approval is for following aesthetic qualities:
 - a. Compliance with approved submittals.
 - b. Compliance with specified aggregate exposure class.
 - c. Compliance with specified appearance level.
 - d. Compliance with specified color.
 - 7. Obtain Architect's approval before starting work on project.
 - 8. Protect and maintain approved field mock-ups during construction in an undisturbed condition as a standard for judging completed work.
- C. Pre-Installation of Concrete Conference: Prior to placing concrete for areas scheduled for polishing, conduct conference at Project to comply with requirements of applicable Division 01 Sections.
 - 1. Required Attendees:
 - a. Owner.
 - b. Architect.

- c. Contractor, including supervisor.
 - d. Concrete producer.
 - e. Concrete finisher, including supervisor.
 - f. Concrete polisher, including supervisor.
 - g. Technical representative of liquid applied product manufacturers.
2. Minimum Agenda: Polisher shall demonstrate understanding of work required by reviewing and discussing procedures for, but not limited to, following:
- a. Tour field mock-up and representative areas of required work, discuss and evaluate for compliance with contract documents, including substrate conditions, surface preparations, sequence of procedures, and other preparatory work performed by other installers.
 - b. Review contract document requirements.
 - c. Review approved submittals and field mock-up.
 - d. Review procedures, including, but not limited to:
 - 1) Applicable Division 03 Section on cast-in-place concrete
 - a. Specific mix design.
 - b. Specified curing methods/procedures.
 - c. Projected 3, 14, and 28 day compressive strength test for finished floor and project phasing.
 - d. Protection of concrete substrate during construction and prior to polishing process.
 - e. Project phasing and scheduling for each step of grinding, honing and polishing operations including, but not limited to:
 - i. Quality of qualified personnel committed to project.
 - ii. Quality and size of grinders committed to project.
 - iii. Proper disposal of concrete slurry and/or concrete dust.
 - f. Details of each step of grinding, honing, and polishing operations.
 - i. Application of color.
 - ii. Application of liquid applied products.
 - iii. Protecting polished concrete floors after polishing work is complete.
3. Reports: Record discussions, including decisions and agreements reached, and furnish copy of record to each party attending.

1.07 DELIVERY, STORAGE & HANDLING

- A. Delivery: Materials shall be delivered to the job site in sealed, undamaged containers. Each container shall be clearly marked with manufacturer's label showing type of material, color, and lot number.
- B. Storage: Store all materials in a clean, dry place with a temperature range in accordance with manufacturer's instructions.
- C. Handling: Handle products carefully to avoid damage to the containers. Read all labels and Safety Data Sheets prior to use.

1.08 FIELD CONDITIONS

- A. Damage and stain prevention: It is the responsibility of others to prevent damage and staining of concrete surfaces to be polished.
 - 1. Prohibit use of markers, spray paint, and soapstone.
 - 2. Prohibit improper application of liquid membrane film forming curing compounds.
 - 3. Prohibit vehicle parking over concrete surfaces.
 - 4. Prohibit pipe-cutting operations over concrete surfaces.
 - 5. Prohibit storage of any items over concrete surfaces for not less than 28 days after concrete placement.
 - 6. Prohibit ferrous metals storage over concrete surfaces.
 - 7. Protect from petroleum, oil, hydraulic fluid, or other liquid dripping from equipment working over concrete surfaces.
 - 8. Protect from acids and acidic detergents contacting concrete surfaces.
 - 9. Protect from painting activities over concrete surfaces.
- B. Environmental Limitations: Comply with manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting liquid applied product application.

1.09 WARRANTY

- A. Upon completion of the work in this section provide a written warranty from the manufacturer against defect of materials. To obtain project specific warranty the coating system applicator must be a Westcoat Qualified Contractor/ Applicator and apply for warranty.

PART 2 – PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable manufacturer: Westcoat Specialty Coatings; 4007 Lockridge Street, San Diego, CA 92102. Telephone 800-250-4519. Fax 619-262-8606. Website: www.westcoat.com.
- B. Substitutions: No Substitution.

2.02 MATERIALS

- A. Fast Stain Polish System:
 - 1. Densifier: SC-21 Lithium Silicate 200 to 400 square feet per gallon.
 - 2. Stain: SC-36 Fast Stain 200 to 400 square feet per gallon.
 - 3. Guard: SC-24 Polish Guard 2000 to 2500 square feet per gallon

2.03 ACCESSORIES

- A. Supplemental Materials:
 - 1. Patching materials: TC-29 Concrete Patch. Contact Westcoat for additional patching materials.
 - 2. Joint Filler: Hi-Tech Systems or Metzger Mcguire
 - 3. Grouting Materials: Contact Westcoat for approved grouting material options.
 - 4. Slab Protection: Ramboard or Skudo.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Acceptance of Surfaces and Conditions:
 - 1. Examine substrates to be polished for compliance with requirements and other conditions affecting performance.
 - a. Concrete finished floor flatness according to applicable Division 03 Section on cast-in-place concrete.
 - b. Concrete curing methods according to applicable Division 03 Section on cast-in-place concrete.
 - c. Concrete compressive strength according to applicable Division 03 Section on cast-in-place concrete.
- B. Proceed only when unsatisfactory conditions have been corrected in a manner complying with Contract Documents.
- C. Starting work within a particular area will be construed as acceptance of surface conditions.

3.02 SURFACE PREPARATION

- A. Cleaning New Concrete Surfaces:
 - 1. Prepare and clean concrete surfaces.
 - 2. Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, paint splatter, and other contaminants incompatible with liquid applied products and polishing.

3.03 INSTALLATION

- A. Install Polished Concrete System in accordance with manufacturer's instructions.

- B. Mix all materials in accordance with manufacturer's instructions.
- C. Use application equipment, tools, and techniques in accordance with manufacturer's instructions.
- D. Uniformly apply products at spread rates and in number of coats to achieve specified coverage.
- E. Adhere to all limitations, instructions, and cautions for Polished Concrete System as stated in the manufacturer's published literature.
- F. Provide gloss and aggregate exposure requirements in accordance to Concrete Polishing Council terminology.
- G. Perform necessary process to meet approved aggregate exposure and appearance in accordance with Concrete Polishing Council's Polished Concrete Aggregate Exposure Chart and Concrete Polishing Council's Polished Concrete Appearance Chart. See the following:

Aggregate Exposure Chart		
Class	Name	Surface Exposure, %
A	Cream Fines	85 – 95% Cement Fines 5 – 15% Fine Aggregates
B	Fine Aggregate	85 – 95% Fine Aggregates 5 – 15% Blend of Cement Fines and Coarse Aggregates
C	Coarse Aggregate	80 - 90% Coarse Aggregate 10 - 20% Blend of Cement Fines and Fine Aggregates
<p>Aggregate exposure class denotes the surface exposure after grinding and polishing operations. The density, size and distribution of the aggregates at the surface depends on the concrete mix design and placing and finishing operations. Floor flatness at the time of grinding and polishing operations is an important consideration in selecting the appropriate aggregate exposure class. Surface exposure percentages are based on visual observation of the overall area of the polished floor.</p>		

Appearance Chart				
Level	Name	Reflective Clarity	Image Clarity Value, % ASTM D5767, D4039	Haze Index ASTM D4039
1	Flat (Ground)	Images of objects being reflected have a flat appearance.	0 - 9	< 10
2	Satin (Honed)	Images of objects being reflected have a matte appearance.	10 - 39	
3	Polished	Images of objects being reflected do not have a sharp and crisp appearance but can easily identified.	40 - 69	
4	Highly Polished	Images of objects being reflected have a sharp and crisp as appearance as would be seen in a near-mirror like reflection. May require grouting.	70 - 100	

3.04 FIELD QUALITY CONTROL

- A. Verify other materials are as specified.
- B. Verify coverages and finish of the system as work progresses.
- C. Manufacturer's representative shall provide technical assistance and guidance for surface preparation and application of Polished Concrete System.

3.05 PROTECTION AND CLEAN-UP

- A. Installation areas must be kept free from traffic and other trades during the application procedure and cure time.
- B. Protect finished surfaces of Polished Concrete System from damage during construction.
- C. Touch-up, repair or replace damaged Polished after substantial completion.
- D. Clean area and remove all debris upon completion of work. Dispose of empty containers properly according to current Local, State and Federal regulations.
- E. Allow material to cure 4 to 6 hours before light pedestrian traffic is permitted, 24 hours before heavy traffic and an additional 48 hours before heavy objects are placed on the surface.

3.06 MAINTENANCE

- A. Contractor shall provide to owner, maintenance and cleaning instructions for the Polished Concrete System upon completion of work. Owner is required to clean and maintain the surfaces to maintain manufacturer's warranty.



APPLIED ON CONCRETE



Burnt Orange | 551



Brown | 552



Red Brown | 566



Yellow | 550



Green | 557



Sage Green | 568



Royal Blue | 567



Blue | 556



Purple | 554



Red | 558



Gray | 563



Black | 553



CAUTION:

Color will vary between products and sheens. This chart is for reference only.
Please request an actual color sample or apply sample on site before beginning any project.

