

Clear Guard® First Seal™

Water Repellent Sealer That Promotes Adhesion (Reactive Penetrating Sealer)

Technical Data Sheet CGFS-04

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FOR PROFESSIONAL USE ONLY. Read all applicable and current product information for your project: Technical Data Sheet (TDS), Color Chart, Installation Guide, Safety Data Sheet (SDS). All information is available for download online at www.butterfieldcolor.com and at point of purchase.

MasterFormat™ Guide Specifications, and Butterfield Color® Architectural Details and Specifications are available for the specifier/designer. All information is available for download online at www.butterfieldcolor.com and at point of purchase.

1. Description: Clear Guard® First Seal™ (Reactive Penetrating Sealer) is a pre-packaged water-based reactive water repellent sealer for use on unsealed concrete and unsealed concrete overlays. Clear Guard® First Seal™ may be applied as soon as 48 hours after the concrete is poured. Clear Guard® First Seal™ is specially formulated to allow for the high PH of new concrete and is designed to penetrate deep into the pores of the concrete. Clear Guard® First Seal™ will react with the concrete and create a water resistant surface and a hydrophobic interior, thus reducing water and chemical absorption and reducing the damaging effects caused by freeze-thaw and de-icing salts. In addition to being a water repellent, Clear Guard® First Seal™ provides excellent adhesion benefits when it is applied and allowed to dry prior to the application of all Butterfield Color® acrylic sealers. Clear Guard® First Seal™ is a breathable sealer that can be used with color hardened concrete, stamped or stenciled concrete, and cementitious overlays. It is recommended for use with Uni-Mix® Integral Concrete Colorant, Select Grade® Integral Concrete Colorant and Uni-Mix® Liquid Integral Concrete Colorant coloring systems, Perma-Cast® Shake-on Color Hardener, T1000® Fine Overlay, and T1000® Stampable Overlay. Clear Guard® First Seal™ is suitable for residential or commercial projects, interior floors, and exterior hardscapes. **Clear Guard® First Seal™ should not be used on concrete that has been stained with Perma-Cast® Sierra Stain™ or any other acid stain.**

Clear Guard® First Seal™ provides good economical protection on exterior hardscapes, thereby reducing maintenance costs. Clear Guard® First Seal™ can be used on driveways, sidewalks, patios, pavers, precast

units, natural stone, cultured stone and other concrete surfaces.

Clear Guard® First Seal™ is a milky white liquid which dries clear and does not enhance the color of the surface. Clear Guard® First Seal™ complies with all VOC (< 350 g/L) requirements and other Federal and State Air Quality Regulations. The longevity of Clear Guard® First Seal™ depends upon exposure and use conditions.

2. Limitations: **Clear Guard® First Seal™ should not be used with Perma-Cast® Sierra Stain™ or other acid stains. Do not apply over Elements® Transparent Concrete Stain or other stains that prevent penetration into the concrete.** Do not use Clear Guard® First Seal™ on concrete that is less than 2 days old. Clear Guard® First Seal™ may not react on old concrete that is low in alkalinity. Clear Guard® First Seal™ should only be used when ambient and surface temperatures are between 45-90°F (7-32°C). Do not apply if rain or high humidity is expected within 4 hours of application. Material temperatures should be at least 50°F (10°C) during use. Do not use in swimming pools, fountains or ponds. Do not use on surfaces that will have direct food contact. Do not use for re-coating or in conjunction with other floor sealers, treatments, bond breakers, or adhesives unless properly tested prior to application. Clear Guard® First Seal™ should not be used as a curing compound.

Do not use Clear Guard® First Seal™ if it has been frozen. Clear Guard® First Seal™ must dry completely before it is subjected to temperatures below 45°F (7°C) or moisture from any source. Do not over-apply material or allow collecting in joints, texture imprints or other surface impressions.

Warning: Treated surfaces may be slippery during application prior to drying, and when wet with water or liquids after drying. Concrete should be textured sufficiently to eliminate potential slipping hazards. Test and confirm that the treated surface is adequately slip resistant prior to opening installation to any traffic.

3. Packaging:

Container	Content
Jug	1 US gallon (3.8 L)
Pail	5 US gallon (19 L)

4. Shelf Life: 1 year, when stored in original, unopened containers at temperatures between 45-90°F (7-32°C)

5. Coverage: Coverage rates vary with surface texture and porosity, ambient and surface temperatures and method of application. The following coverage rates are approximate for broom finish concrete surfaces.

200-400 ft²/gal (4.9-9.8 m²/L)

6. Substrate Preparation: Protect all areas not intended to be sealed from over spray, splash or wind drift. Concrete must be free of dirt, grease, oil residue, curing or sealing compounds and other substances that would diminish penetration. Surface should be clean, dry and absorbent. On stamped concrete be sure all release agents are thoroughly washed and scrubbed from the surface. Surface must be completely dry prior to application so that the material may absorb deep into the concrete.

7. Mixing: Gently hand mix. Do not create foam.

8. Application: Clear Guard® First Seal™ should be applied at temperatures between 45-90°F (7-32°C) during application and 24 hours after. Clear Guard® First Seal™ may be ap-

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plied using a roller, application brush or hand pump sprayer. Do not thin. If using a roller, 1/4" to 3/4" nap length is recommended. The nap length or the roller will depend on the surface porosity and texture of the concrete. When spraying, flood evenly with a fan pattern overlapping each pass. Spraying should be back rolled to remove any puddling. If after 10 minutes any sealer is still on the concrete, wipe off with a clean dry rag. Do not allow to dry on the surface. For extremely porous surfaces, a second coat may be necessary. If so, the second coat should be applied within 8 hours.

8.1. OVERLAYS: If overlays are porous, two coats of Clear Guard® First Seal™ are recommended.

8.2. USED AS A PRIMER COAT: Clear Guard® First Seal™ should be applied as directed above. Be sure to allow Clear Guard® First Seal™ to dry completely prior to application of all Butterfield Color® acrylic sealers. Follow all the Technical Data Sheets on the sealer being applied. Butterfield Color® Technical Data Sheets are available for download online at www.butterfieldcolor.com and at point of purchase.

9. Maintenance: To help protect the surface of the concrete, wipe up all chemical solvent or petroleum spills as soon as possible. Remove abrasive debris by sweeping or vacuuming. Do not drag, drop or place sharp edges on concrete surfaces. Periodic

washing with mild detergent will help maintain surface appearance. Do not use solvent or acid-based cleaning materials. If it becomes apparent that water is readily being absorbed into the concrete, it is time to reapply Clear Guard® First Seal™ following instructions above. Do not apply Clear Guard® First Seal™ if the concrete has been previously sealed.

10. Quality Control: Cast a job site sample at least 21 days prior to the installation for approval of color and finish. Utilize all materials, tools, and techniques from the actual job in the mock-up. Consistent batching, pouring, finishing, curing, sealing, and preparation techniques, will ensure the uniformity of concrete. Verify adequate wet and dry slip resistance. Verify maintenance requirements. Site visits by Butterfield Color, Inc. Personnel are for making technical recommendations only and not for supervising or providing quality control.

WARNING: MAY CAUSE EYE, SKIN, AND RESPIRATORY IRRITATION. **DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.** WEAR AN ORGANIC RESPIRATOR, EYE PROTECTION, AND PROTECTIVE CLOTHING DURING APPLICATION. COVER PLANT MATERIAL. THE REACTION OF CLEAR GUARD® FIRST SEAL™ AND CONCRETE PRODUCES ETHANOL. ENSURE ADEQUATE VENTILATION DURING AND AFTER

APPLICATION. PREVENT FUMES FROM ENTERING THE HVAC SYSTEM. IN CASE OF SPILLAGE, ABSORB AND DISPOSE OF MATERIAL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. BEFORE USE, READ THE SAFETY DATA SHEET (SDS). ALL INFORMATION IS AVAILABLE FOR DOWNLOAD ONLINE AT WWW.BUTTERFIELDCOLOR.COM AND AT POINT OF PURCHASE.

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