



## CERTI-SHINE<sup>®</sup> CLEAR

### PERMANENT SHINE FOR POLISHED CONCRETE

#### **DESCRIPTION**

**CERTI-SHINE CLEAR** enhances the natural beauty of polished concrete and produces a wear-pattern free, shine retentive, decorative polished concrete floor.

Certi-Shine Clear is a chemically modified potassium silicate for superior rapid penetration without scrubbing and rinsing. Simply apply, re-distribute and re-apply until the concrete no longer absorbs and is fully densified.

Once absorbed, Certi-Shine Clear reacts with the free lime and calcium hydroxide in concrete, producing a permanent chemical reaction that hardens, densifies and tightens the concrete surface.

A fully densified polished concrete floor is the foundation for a stain-free floor. By adding both Certi-Shine Fixative and Certi-Shine Finish Coat Ultra, polished concrete will then resist motor oil, food acids and oils along with a variety of other typical hazards for polished concrete.

All three Certi-Shine products, Certi-Shine Clear, Certi-Shine Fixative and Certi-Shine Finish Coat Ultra, must be used when installing a **Certi-Shine Clear FSR** or **Certi-Shine MicroStain FSR** floor.

#### **CERTI-SHINE CLEAR HB**

Use **Certi-Shine Clear HB** when densifying and polishing soft or very porous concrete. This material is a high solids product that allows the pores to be plugged in one or two coats. After the Certi-Shine Clear HB has plugged up the concrete, apply the Certi-Shine Clear until the floor is fully densified to rejection.

#### **BENEFITS**

- Chemically modified potassium silicate solution
- Minimum 18% solids
- Permanently protected and sealed
- No scrubbing or rinsing required
- Eliminates or reduces waste stream during installation
- Odorless, non-hazardous, USDA approved
- Meets LEED point standards for green building
- Abrasion, wear resistant
- No topical film to wear through
- 20 year warranty
- Based on StarSeal PS proven technology
- Low maintenance, no waxing or re-surfacing required

#### **SURFACE PREPARATION**

Grind open the concrete and bring up to a scratch-free honed surface. Clean and allow to dry. When the concrete is clean, dry and water absorbent, the concrete is ready for Certi-Shine Clear to be applied.

#### **PRIMARY APPLICATION AREAS**

##### **CERTI-SHINE CLEAR System:**

##### **Product: Certi-Shine Clear.**

Interior and exterior concrete surfaces such as warehouse and industrial floors, parking structures, driveways, entrances walkways, and stadiums where there is no exposure to food. Can be applied over neutralized acid stains, acetone based dyes; water based stains or integrally colored or shake on hardened concrete.

##### **CERTI-SHINE CLER FSR System:**

##### **Products: Certi-Shine Clear, Certi-Shine Fixative and Certi-Shine Finish Coat Ultra**

Concrete applications such as restaurants, shopping malls, kitchens, food courts, schools, pool decks, stadiums, counter tops, food markets and food handling areas. Can be applied over neutralized acid stains, acetone based dyes; water based stains or integrally colored or shake on hardened concrete.

##### **CERTI-SHINE MICROSTAIN FSR System:**

##### **Products: Certi-Shine MicroStrain, Certi-Shine Clear, Certi-Shine Fixative, Certi-Shine Finish Coat Ultra or Certi-Shine Finish Coat CE**

Any area requiring a decorative colored desdified/hardened or polished concrete floor. Ideal for high UV exposed environments.

#### **APPLICATION INSTRUCTIONS**

Net Coverage Rate: 200-300 sq. ft. /gallon. Apply in thin coats depending on the porosity of the concrete. The goal is to densify the concrete to rejection.

1. Apply an even coat of Certi-Shine Clear with a low pressure (20-50 PSI) pump-up sprayer, Fas-Trak Applicator, EvenFlow Applicator or micro-fiber pad and tray at a coverage rate of 400 sq. ft/gallon for the first coat. Typically this coat will penetrate easily and be fully absorbed.
2. Apply additional Certi-Shine Clear at 400 sq. ft/gallon and allow the product to penetrate. If it absorbs fully, continue to apply Certi-Shine Clear at 400-500 sq. ft/gallon until the surface remains wet.
3. If most of the material has penetrated, redistribute the remaining product from the wetter areas to the drier areas. Add water to slick areas after 30 minutes.
4. If all material has absorbed in without a surface film, let the fully densified concrete dry overnight. Make sure there are no puddles or squeegee ridges; these should all be spread out evenly to dry.
5. To enhance shine, high speed propane burnish with a black pad the next day. This process should be a very slow walk, producing friction and heat; target initial floor temperature plus 20°F minimum.
6. Continue Diamond Polishing if required.

## SYSTEM INSTALLATION

### Certi-Shine Clear, Certi-Shine Clear FSR and Certi-Shine MicroStain FSR

For complete installation instructions, refer to Certi-Shine Application Instruction Sheets TN 200A or TN 205A.

### REPAIR

Invisible surface repair treatment that improves the appearance, gloss and clarity of concrete. Certi-Shine Fusion technology makes large and small surface imperfections such as crazing, pin holes, pop-outs and divots blend into the concrete. For more information visit [vexcon.com](http://vexcon.com)

### SPECIFICATIONS/COMPLIANCE

- VOC 0 grams/liter
- Certi-Shine Clear treated concrete is performance validated with the following standards:
- LEED NC category/points: For detailed information visit [vexcon.com/green](http://vexcon.com/green)
- Balance Beam Mar Tester ASTM D5178: Greater than 50% harder
- ASTM D2486 Abrasive Scrub: 1200 Cycles
- Modified Taber Abrasion 600 Revolutions: 0.37% treated vs. 0.68% untreated
- ASTM G53/G154 5000 HR QUV: No fade, change or erosion
- Bonding ASTM D4541: Greater than 50 psi
- Absorbability ASTM C642: Reduction of 75% of Control
- Solids/ Non-Volatiles ASTM D2369: 18% Min.
- Case Consulting Laboratories: Coefficient of Friction ASTM D2047:

Certi-Shine Clear – average – 0.54

Certi-Shine Finish Coat – average – 0.63

- | ASTM E85 – Surface Burning meets: | Results |
|-----------------------------------|---------|
| - Class A Flame Spread Index      | <25 0   |
| - Smoked Developed Index          | <450 0  |
- ASTM E648 – Critical Radiant Flux – Radiant Heat Energy Source – Class I – 0.98 avg.
  - CSI Reference: 03 35 43, 03 36 00

### WARRANTY SUMMARY

For a period of Twenty (20) years commencing from the date on which the concrete surface described herein is treated with Certi Shine Clear. For a full explanation of our warranty please visit [vexcon.com](http://vexcon.com).

### MAINTENANCE

Spills should be removed promptly and cleaned with **StarSeal EF Degreaser and Cleaner** (product data sheet OP 138) or a high quality commercial detergent. Floors should be cleaned as needed. For more details, see TN 40 Certi-Shine Maintenance.

### SPECIAL NOTES/LIMITATIONS

- For use by Certi-Shine certified applicators only
- Do not apply to metal, glass or painted surfaces
- Not for use at temperatures below 40°F (4°C)
- Keep from freezing
- Do not dilute except as directed
- Cannot hide surface blemishes or cover construction error
- Use **Certi-Shine Fusion** to repair holes, cracks and similar surface imperfections
- Not recommended for epoxy terrazzo
- Not recommended for stamped concrete
- Shelf Life: If properly stored in its original sealed container, three (3) years from date of manufacture. Rotate your stock.
- Proper application of Vexcon material is the responsibility of the installer or user. Telephone consultation and/or field visits by Vexcon personnel are for the sole purpose of making technical recommendations only, and not for providing quality control or supervision on location

### CHEMICAL RESISTANCE CHART

#### Certi-Shine Clear & MicroStain

Tested by ASTM D1308, “Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes” for 1 hour. Refer to Certi-Shine Technical Note TN30, available at [vexcon.com](http://vexcon.com) Technical Notes.

### PACKAGING

Certi-Shine Clear is available in 55-gallon drums and 5-gallon pails. Contact Vexcon to discuss your customized packaging requirements.

### HEALTH AND SAFETY

Vexcon SDS OP200 is an integral part of the safety and application of our product. Before using this Vexcon product obtain a copy of the SDS from your distributor or by contacting Vexcon Chemicals.

### VITAL STATISTICS

|                             |              |               |
|-----------------------------|--------------|---------------|
| • Boiling Point (760 mmHg): |              | 212°F (100°C) |
|                             | <b>CLEAR</b> | <b>HB</b>     |
| • Flash Point:              | NA           | NA            |
| • Autoignition Temp:        | NA           | NA            |
| • Pounds/gal                | 9.38         | 10.68         |
| • Specific Gravity          | 1.126        | 1.282         |
| • VOC:                      | Zero         | Zero          |

### CONTACT US @

Additional product information, technical assistance and customer services are available by contacting Vexcon Chemicals directly or our distributors.

- [vexcon.com](http://vexcon.com)
- [techservice@vexcon.com](mailto:techservice@vexcon.com)
- [customerservice@vexcon.com](mailto:customerservice@vexcon.com)
- [sales@vexcon.com](mailto:sales@vexcon.com)
- Voice: 888.839.2661
- Fax: 215.332.9997

#### WARRANTY

LIMITED WARRANTY: Vexcon warrants for a period of one (1) year from the date of manufacture that the goods supplied hereunder shall be of its standard quality and free of defects, and conforms to (a) Vexcon's published specifications in force on the date of acceptance by Vexcon of the order and (b) the sample which has been made available for testing by buyer prior to sale. Any claim under this warranty must be made in writing to Vexcon Chemicals within sixty (60) days after such non-conformity is first discovered. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon at its option shall replace nonconforming goods or refund the purchase price. Since methods of use and application are beyond Vexcon's control, this Limited Warranty IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE CONCERNING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS LIMITED WARRANTY IS ALSO IN LIEU OF ANY OTHER POSSIBLE LIABILITIES OF VEXCON, WHETHER ALLEGED TO ARISE BY AGREEMENT OR BY OPERATION OF LAW, RESPECTING THE SALE, APPLICATION, USE OR FUNCTION OF VEXCON'S PRODUCTS, INCLUDING BUT NOT LIMITED TO CLAIMS OF NEGLIGENCE, GROSS NEGLIGENCE, MISUSE, STORAGE DAMAGE, MISAPPLICATION, ACCIDENT, STRICT LIABILITY OR ANY OTHER TORT. No person is authorized by Vexcon to assume for it any other liability of any kind in connection with the sale or use of products manufactured and sold by it, and there are no oral agreements or warranties collateral to or affecting any sale or use. All of the foregoing arises under the substantive law of Pennsylvania without regard to principles of conflicts of laws.

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