

## PRODUCT DATA SHEET

# SCOFIELD® Formula One Guard-W

A POLYMERIC WATER AND STAIN RESISTANT BURNISHING FINISH DESIGNED TO PROTECT POLISHED CONCRETE SURFACES

### PRODUCT DESCRIPTION

SCOFIELD® Formula One Guard-W is a polymeric water and stain resistant burnishing finish that is designed to guard and protect smooth ground and polished concrete surfaces.

Its organo-silicate hybrid composition combines the densifying and abrasion resistant properties of lithium silicate, with the stain blocking properties found only in self-crosslinking organic systems.

Applied after application of a quality concrete densifier, SCOFIELD® Formula One Guard-W should be polished to the desired gloss level with high-speed floor burnishing equipment. Properly installed, a thin yet durable film with good moisture transmission properties remains. This film will not crack, peel, or delaminate under normal conditions.

### USES

Use as a final concrete polish to guard and protect interior:

- Smooth ground concrete floors
- Ground flat exposed aggregate
- Ground smooth embedded terrazzo
- Ground smooth cementitious overlays
- Countertops

### PRODUCT INFORMATION

<b>Chemical Base</b>	Lithium Silicate with proprietary polymeric polish and water repellent.
<b>Packaging</b>	1-gallon (3.8 L) cans, 5-gallon (18.9 L) pails, and 55-gallon (208 L) drums.
<b>Appearance / Color</b>	Milk like liquid. When installed, it is colorless clear.

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### CHARACTERISTICS / ADVANTAGES

- Adds water and stain resistance.
- Low odor, non-yellowing water based formulation.
- Breathable thin film forming surface treatment.
- Bonds directly to cement and aggregate silicates.
- Effectively locks in concrete dyes.
- Shortens concrete polishing times.
- Does not gum burnishing equipment.
- UV light stable.
- Cures to a non-toxic surface.
- Apply by spray and mop.

### APPROVALS / STANDARDS

SCOFIELD® Formula One Guard-W can be used as part of a low VOC concrete polishing system to earn LEED® credits for Indoor Environmental Quality, EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings.

SCOFIELD® Formula One Guard-W can be used to make floors that exceed the Underwriters Laboratories Safety Standard UL 410, "Slip Resistance of Floor Surface Materials."



**Shelf Life**

18 months from the date of manufacture. 1 month after opening.

**Storage Conditions**

Store in original containers at 40°F to 110°F (4°C - 43°C). DO NOT FREEZE!

**APPLICATION INSTRUCTIONS**

If using spray equipment, always wear protective respirator. Mask adjacent areas to protect property from splashes and overspray. Dried material will be difficult to remove. Remove overspray immediately with soap and water.

**Product Dilution**

First applications of SCOFIELD® Formula One Guard-W should be made full strength without dilution. Second passes or maintenance applications can be diluted 1:1 with water.

**Coverage**

Coverage will depend upon method of application, surface porosity, age, moisture, absorption characteristics and the texture of the concrete. The application of two thin coats prior to burnishing is recommended.

Spread rate on flat finished concrete that has been ground, densified, and roughly polished with a 400 grit abrasive disk, is typically 1200-1500 ft<sup>2</sup>/gal (36.7 - 49.0 m<sup>2</sup>/L). Slabs ground to expose hard non absorptive aggregates will take less material. For all uses and applications, spread or scrub puddles of excess material into surfaces before it is allowed to dry. Puddled material allowed to dry can form unsightly salts that are difficult to polish.

**Equipment**

Apply by low pressure pump-spray application, followed by thorough spreading and distribution with a microfiber mop or floor wax applicator to work material into substrate pores.

High-speed burnishing equipment will be required along with coarse through super fine diamond impregnated polishing disks. Disks beginning with 400 grit, and progressively finer will be needed. Typical sequences of disks used include 400, 800, 1200, and 3000 grit. Final grit selection will determine final gloss.

Always wear protective clothing and personal protection equipment proper for the method of application and burnishing.

**SUBSTRATE PREPARATION**

For best results, all concrete should be fully cured and at least 28 days old so that the slab has reached full hardness. Surfaces must be clean of all prior sealers, curing compounds, oils, or other foreign materials that might prevent penetration.

Surfaces should already be densified. If dyes have been used, they should be locked in with a densifier and

ground and polished with at least a high-speed 400 grit diamond impregnated polishing pad prior to application of SCOFIELD® Formula One Guard-W.

**Mixing:** Mix until uniform before using.

**Jobsite Test Sections**

Verify and approve suitability and appearance by making jobsite test sections prior to general application. Each individual concrete color, finishing technique, densifier, sealer, and polish combination should be verified. Test sections must be of adequate size to be representative and be produced by the same workers who will apply product to the larger job. Test completed systems for wet and dry slip resistance to ensure they are safe. Do not proceed with products, techniques, or finishing systems that do not meet required safety specifications or site owner approval.

**APPLICATION**

Mask all areas not to be coated to safeguard against splashes, overspray, and runoff from application. Wear all required safety equipment. Take care not to allow tape adhesive to interfere with surfaces to be treated. Surfaces wet with material will be slippery until dry.

Distribute product with a pump garden sprayer to fully saturate the surface. Spread material with flat microfiber pad or floor wax applicator. Allow the material to dry to touch, and apply a second coat. Take care not to create lap marks as they are difficult to remove once the product has dried. If too much material has been applied, and it is puddled after 30 minutes, dilution and removal with a wet vacuum is recommended.

When the second application is dry, high-speed burnishing and polishing with progressively finer grit abrasive pads can begin.

**Dry times** will depend upon weather conditions. At 70°F (21°C) and 50% relative humidity surfaces should be dry and able to be polished in 1 hour. SCOFIELD® Formula One Guard-W has a self-crosslinking component, best results will be achieved if the final high-gloss polishing is performed after an overnight dry.

**Cleaning of Equipment**

Clean equipment with warm water and detergent immediately after application.

**AVAILABILITY/WARRANTY****Availability**

SCOFIELD® Formula One Guard-W is marketed nationwide and internationally, directly to the user and through strategically located warehouses, dealers, and

representatives. Contact Scofield for its nearest representative. Scofield offers a complete line of engineered systems for coloring, texturing, and improving performance in architectural concrete. Scofield Systems address specialized requirements for interior, exterior and vertical uses with compatible systems of complementary products including coloring admixtures, color hardeners, colored cementitious toppings, stains, curing compounds, sealers, coatings, repair products and texturing tools. Visit the Scofield website at [www.scofield.com](http://www.scofield.com) for further information.

## LIMITATIONS

SCOFIELD® Formula One Guard-W is not a curing compound. It is intended only for use on ground and polished concrete. It is a penetrating and reactive material that functions without forming any appreciable film or coating. It is not intended for use on underwater applications.

Water and stain repellency of treated substrates will develop over time; 2 weeks is generally sufficient. Surfaces treated with SCOFIELD® Formula One Guard-W should not be cleaned with or exposed to acidic cleaners or substances.

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## LOCAL RESTRICTIONS

See Legal Disclaimer.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

VOC = 95 g/l

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## LEGAL DISCLAIMER

**KEEP CONTAINER TIGHTLY CLOSED •KEEP OUT OF REACH OF CHILDREN •NOT FOR INTERNAL CONSUMPTION •FOR INDUSTRIAL USE ONLY •FOR PROFESSIONAL USE ONLY**

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