



PRODUCT DATA SHEET

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CONCRETE TOPICAL TREATMENTS

SCOFIELD® Formula One™ Guard-W

WATER-BASED FINISH USED IN CONJUNCTION WITH A HIGH-SPEED BURNISHER TO ENHANCE THE GLOSS OF GROUND AND POLISHED CONCRETE SURFACES

Description	SCOFIELD® Formula One™ Guard-W is a low VOC, cost-effective interior concrete finish containing lithium silicate. It will improve the gloss level and surface durability of ground and polished concrete when applied and polished with a high-speed burnisher. SCOFIELD® Formula One™ Guard-W is normally used after densifier treatment with SCOFIELD® Formula One™ Lithium Densifier MP followed by grinding to the desired grit or finish. The two products correctly used together will provide a surface that is resistant to water penetration, easy to maintain, environmentally sound, with an increased gloss level and clarity. SCOFIELD® Formula One™ Guard-W is specifically formulated for use with SCOFIELD® Formula One™ Liquid Dye Concentrate and SCOFIELD® Formula One™ Lithium Densifier MP as part of a three step process to add colour to the plain interior concrete floors.
Where to Use	<ul style="list-style-type: none"> ▪ Schools, colleges and universities ▪ Hospitals and healthcare facilities ▪ Warehouses and industrial plants ▪ Showrooms, retail stores and shopping malls ▪ Restaurants and entertainment complexes ▪ Commercial offices and government buildings ▪ Residential buildings
Advantages	<ul style="list-style-type: none"> ▪ Reduces the permeability to liquids while allowing the surface to breathe ▪ Economical product that is easy to apply ▪ Provides longer life and higher reflectivity for ground and polished concrete of all grades and classes ▪ Creates aesthetic, environmentally sound and easy to maintain surfaces ▪ Product does not contain sodium silicate or potassium silicate; will not leave a whitish surface bloom characteristic of non-architectural silicate products ▪ Meets the requirements of CFIA and USDA for use in food plants
Technical Data	
Packaging	18.9 L (5 US gal.) pail
Colour	Milky white
Yield	Polished concrete will usually require an application rate of 36.7 - 49 m ² /L (1500 - 2000 ft ² / US gal.) for each coat. To insure complete and proper coverage, two (2) coats must be applied prior to burnishing. <i>Note: The application rate will be determined by the porosity and the polished surface profile of the concrete floor at the time of treatment.</i>
Shelf Life	2 years from date of manufacture in original, unopened containers. Store product in warehouse conditions, off the ground, at temperatures between 4 and 37 °C (40 and 100 °F). Close containers after use, then use remaining product within 1 month. Protect from freezing. If frozen, the product must be discarded.
VOC Content	98.4 g/L
Chemical Resistance	Consult Sika Canada
<small>Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.</small>	

HOW TO USE

Surface Preparation

The polished concrete surface must be clean and sound. Remove any dust, laitance, grease, oil, dirt, curing agents, impregnations, wax, foreign matters, coatings and disintegrated material from surface that will reduce or prevent penetration. For optimum performance, SCOFIELD® Formula One™ Guard-W should only be applied to fully cured concrete that is a minimum of 28 days old to allow for adequate penetration and reaction within the surface. Wet or green concrete should be allowed to dry adequately prior to application so that pores near the surface are not filled with water that can limit product penetration. During cooler temperatures or higher relative humidity conditions, the drying interval should be increased to achieve the level of dryness necessary for good penetration.

NOTE: SCOFIELD® Formula One™ Guard-W is highly alkaline and can react with glass and aluminium; surrounding areas and adjacent surfaces should be adequately masked or protected from overspray, and spills.

Mixing	Stir well prior to use, ensuring thorough agitation and distribution of any settled materials throughout the liquid.
Application	Apply SCOFIELD® Formula One™ Guard-W using a hand pump sprayer with a fan tip at the coverage rate of 36.7 - 49 m ² /L (1500 - 2000 ft ² / US gal.) per coat. Do not apply with a roller. Spread material uniformly on surface using a micro-fiber pad; avoid creating puddles or runs. Allow the first coat of SCOFIELD® Formula One™ Guard-W to dry, approximately 20 - 40 minutes, depending on temperature and humidity. The second coat is then applied in the same manner, and then third coat (if desired) is applied after the second coat has dried. After all coats have been applied and are thoroughly dried; usually 30 - 60 minutes depending on temperature and humidity, the surface is polished using a high-speed burnisher with a minimum speed of 2500 rpm to generate the intended gloss using diamond-impregnated pads. For optimum results, allow SCOFIELD® Formula One™ Guard-W to dry and react for 24 hours prior to final burnishing.
Clean Up	Clean equipment thoroughly immediately after use and handling with soap and water. Close container after each use. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations. Do not reuse empty container. Before using or handling, read the Safety Data Sheet and Warranty.

Maintenance Ground and polished concrete surfaces treated with SCOFIELD® Formula One™ Guard-W are generally very durable and require little maintenance other than scheduled scrubbing with water and a neutral or alkaline cleaner. This recommended cleaning process provides water to hydrate the reactive components of the treatment and to further harden and cure the treated concrete. Spills should be cleaned up when they occur in accordance with good housekeeping practices. Do not use acidic cleaners or substances that may chemically attack and discolour the surface. No waxes or subsequent surface treatments are necessary in most applications but if wax or floor finish is used it should be tested for compatibility prior to use.

Previously treated surfaces with SCOFIELD® Formula One™ Guard-W that lose the initial sheen can receive a maintenance application and reburnishing to restore the sheen and enhance water and stain resistance. The need for maintenance applications will vary depending on traffic and exposure conditions, and is typically performed on an as-needed basis. To determine if a maintenance application is needed, burnish a representative portion. If burnishing does not improve the floor appearance, a reapplication of SCOFIELD® Formula One™ Guard-W is necessary. The water and stain repellency will be restored to full levels as the new material reacts over time, generally within two (2) weeks after application.

NOTE: All coatings, waxes or other materials must be completely stripped and the floor dried prior to the reapplication of SCOFIELD® Formula One™ Guard-W.

Limitations	<ul style="list-style-type: none"> ▪ SCOFIELD® Formula One™ Guard-W is best installed by skilled and experienced applicators. Consult Sika Canada for advice and recommendations. ▪ Not a membrane-forming curing compound and does not conform to ASTM C309 requirements. It is not a substitute for proper curing procedures. ▪ SCOFIELD® Formula One™ Guard-W is alkaline and can react with glass and aluminium. Areas adjacent to the concrete to be treated should be properly protected. ▪ Improved resistance to water intrusion will typically require a minimum of two (2) weeks to develop. ▪ Product does not form a film on the surface like traditional epoxy or urethane coatings, as such, staining may occur. To minimize staining, spills should be cleaned as they occur using good house keeping practises. ▪ Only for use only on ground and polished concrete: when properly applied and finished SCOFIELD® Formula One™ Guard-W will penetrate and react within the concrete without forming any appreciable surface film or coating. ▪ Surfaces treated with SCOFIELD® Formula One™ Guard-W should not be cleaned with or exposed to acidic cleaners or substances. Exposure to acid may cause white spots on the treated concrete surface that are difficult to remove. ▪ Not suitable for underwater applications or surfaces other than interior ground and polished concrete. ▪ After polishing, concrete surfaces treated with SCOFIELD® Formula One™ Guard-W will generally be deeper in colour than that of the original surface appearance. ▪ Sika strongly recommends that a job site mock-up be constructed on the actual substrate prior to general application to verify and approve suitability for appearance, stain resistance and traction values. Mock-up area must be of adequate size to be representative; be produced by the same workers who will apply the SCOFIELD® Formula One™ Guard-W and any companion products, including grinding and polishing equipment and techniques. All test sections must be prepared and treated as specified to verify and approve the suitability of the product for its intended purpose. ▪ Only surfaces that have adequate slip resistance should be considered for treatment with SCOFIELD® Formula One™ Guard-W. Adequate provision should be made by the client throughout the selection and installation process to ensure the finished surface texture meets the end user's wet and dry traction requirements.
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Health and Safety Information For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY



The Information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelflife. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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