



PRODUCT DATA SHEET

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POLISHED AND DYED CONCRETE FINISHING

SCOFIELD® Formula One™ Liquid Dye Concentrate

SOLVENT-BASED, PENETRATING, TRANSLUCENT DYE FOR INTERIOR CONCRETE

Description	SCOFIELD® Formula One™ Liquid Dye Concentrate is an acetone soluble dye, formulated to colour interior concrete surfaces prior to being densified, sealed, or ground and polished. Designed for easy job-site dilution; diluted material will penetrate into the pores of properly prepared new or old concrete. It can be applied lightly to gently tone surfaces, or applied heavily to develop deep rich colour.
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"> ▪ Easy to dilute, mix and apply ▪ 22 standard colours that can be combined to create an unlimited number of colour variations ▪ Ideal for use on older interior concrete where acid stain cannot be used ▪ Fast drying properties suitable for floor areas that must be quickly returned to service

Technical Data

Packaging	Bottle of 236 mL (8 US fl. oz)
Colour	22 standard colours (refer to Colour Chart A-432 SCOFIELD® Formula One™ Liquid Dye Concentrate).
Yield	7 – 15 m ² /L (300 – 600 ft ² /US gal.), after proper dilution with acetone and depending on surface conditions and desired colour intensity <i>Note: Concrete porosity, texture, age, mix design and method by which the surface was finished, will all affect penetration, coverage rate, and final colour.</i>
Shelf Life	One (1) year from date of manufacture in original, unopened containers. Store product in warehouse conditions, off the ground, at temperatures between 10 and 37 °C (50 and 100 °F). <i>Note: Once mixed with acetone, the shelf life will be reduced to 6 (six) months.</i>
Mix Ratio	One (1) bottle of 236 mL (8 US fl. oz) will produce 3.78 L (1 US gal.) of ready-to-use dye
VOC Content	0 g/L
Chemical Resistance	Consult Sika Canada

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.

HOW TO USE

Surface Preparation	The 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. Apply a small amount of dye to test for penetration. If penetration is poor because the surface is unusually dense from power or steel trowelling, grind the concrete surface with a 400 grit diamond/polymer disc to open pores for dye to penetrate. Remove all dust and residue from the surface, and allow it to completely dry, before retesting. SCOFIELD® Formula One™ Liquid Dye Concentrate must only be applied to fully cured concrete that is a minimum of 28 days old.
	Polished Concrete: When preparing to colour concrete that will be later polished; grind the concrete to the desired aggregate exposure and profile prior to application of dye.
Mixing	SCOFIELD® Formula One™ Liquid Dye Concentrate must be mixed with acetone prior to application. Each 236 mL (8 US fl. oz) bottle of dye concentrate is designed to be mixed with 3.66 L (124 US fl. oz) of acetone to produce 3.78 L (1 US gal.) of dye that is ready for application. Mix the dye concentrate and acetone by hand stirring with a wooden paint stick, or by shaking closed containers for two (2) minutes. Do not use power tools or any device that may produce a spark.

Application	<p>Divide work areas into sections using walls, joint lines, or other stationary features to provide natural stopping points. Adjacent surfaces should be adequately masked or protected from overspray and spills.</p> <p>All equipment, protective clothing and masking materials must be safe for use with acetone. Wear rubber gloves, goggles and a dust mask. Wear the appropriate vapour respirator if using in any space where vapours may collect. Consult the most recent Safety Data Sheet for advise on safe handling information.</p> <p>Apply the SCOFIELD® Formula One™ Liquid Dye mixture uniformly in a consistent, overlapping circular motion. When spraying, hold the spray tip approximately 300 mm (12 in) above the concrete surface. If puddles appear on the surface, the mixture is being applied too heavy. SCOFIELD® Formula One™ Liquid Dye will dry to the touch in 5 - 15 minutes, and is ready for sealer system application 30 minutes after drying. To ensure good finish coat adhesion, all excess dye remaining on the surface must be removed prior to application of the topcoat or sealer. Remove excess dye with water and mild detergent using an auto scrubber, floor scrubber, or medium stiffness bristle brush.</p>
	<p>Ground and Polished Floors</p> <p>Apply dye mixtures to floors ground to the desired aggregate exposure/profile and finished with a 400 grit resin/diamond pad. Allow dye to dry to the touch; approximately 5- 15 minutes Remove excess dye with water and mild detergent using an auto scrubber, floor scrubber, or medium stiffness bristle brush. Apply a liberal coat of SCOFIELD® Formula One™ Lithium Densifier MP and polish with 800 grit resin/diamond pad. Apply SCOFIELD® Formula One™ Guard-W and continue polishing with progressively finer grit until the desired finish is achieved.</p>
	<p>Note: Avoid roller marks! Only apply solvent-based topcoats and sealers with spray equipment.</p>
Clean Up	<p>Clean all tools and equipment thoroughly immediately after use/handling with clean acetone. 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 limitations.</p>
Limitations	<ul style="list-style-type: none"> ▪ SCOFIELD® Formula One™ Liquid Dye is best installed by skilled and experienced applicators. Consult Sika Canada for advice and recommendations. ▪ Do not apply product on surfaces containing oil, dirt, prior coating, sealer, or other substances that impede penetration are present. If any of these are present, dye may not penetrate. ▪ SCOFIELD® Formula One™ Liquid Dye is not opaque. It will not hide surface blemishes, construction errors, or imperfections. ▪ Prior to application, ensure the concrete is dry by confirming that the Moisture Vapour Emission Rate (MVER) is below 5 lb/1000 sq. ft per 24 hours, or test to determine Relative Humidity (R.H.) within the concrete is below 85 %. ▪ Do not use on damp concrete, slabs on damp ground, or concrete that will be exposed to moisture. Moisture can cause Liquid Dye to discolour or move within the slab and cause colour variation. ▪ SCOFIELD® Formula One™ Liquid Dye is not designed as a stand-alone floor finish. After application it must be sealed into the concrete with a premium protective coating such as SCOFIELD® Formula One™ Guard-W. ▪ Because concrete surface porosity varies, mottling and colour variations are likely to occur. Concrete from different loads or pours, and in patched areas, may accept dye differently and be different in colour. Always evaluate the entire concrete substrate for surface variation as note above prior to general application. ▪ The final colour effect produced will be unique to each concrete surface and sealer system selected, and may differ significantly from that shown on the colour chart. Always evaluate dye mixtures, sealer systems, and application techniques prior to general application. ▪ For interior concrete surfaces only, exposure to sunlight can cause colour change or fading ▪ 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™ Liquid Dye Concentrate 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™ Liquid Dye Concentrate. 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.



**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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