

PRODUCT DATA SHEET

SCOFIELD® Repello® FPS

A BREATHABLE, LOW VISIBILITY, NON-FILM-FORMING SURFACE TREATMENT THAT PROVIDES WATER AND STAIN REPELLENCY TO INTERIOR OR EXTERIOR CONCRETE SURFACES.

PRODUCT DESCRIPTION

SCOFIELD® Repello® FPS is a proprietary blend of inorganic fluorinated polysiloxane polymers designed to deeply penetrate porous cementitious surfaces and render them water repellent and stain resistant. It is barely perceptible when dry, breathable, will not crack or peel, and penetrates to leave surfaces resistant to staining from oils, sugar, and common foods. It is suitable for use on flat, angled, and vertical surfaces.

USES

Use to create breathable water and stain resistant surfaces that are compliant to various ANSI, ASTM, NFSI, and UL traction standards.

- Ideal for food courts, pools, and entrance walkways where maximum stain resistance is required.
- Renders concrete furniture stain resistant.
- Use on stamped, etched, sand blasted, or surface retarded concrete.

CHARACTERISTICS / ADVANTAGES

- Breathable non-film forming surface treatment.
- Low odor water based formulation.
- Blocks food stains from penetrating into surfaces.
- Exterior durable and UV light stable.
- Apply by brush, roller, or spray.
- Will not gum or spider-web in hot conditions.

APPROVALS / STANDARDS

SCOFIELD® Repello® FPS can be used to make floors that exceed the Underwriters Laboratories Safety Standard UL 410, "Slip Resistance of Floor Surface Materials."



PRODUCT INFORMATION

Chemical Base	Fluorinated Polysiloxane
Packaging	1-gallon (3.8L) cans or 5-gallon (19L) pails.
Appearance / Color	SCOFIELD® Repello® FPS is a clear colorless surface treatment that can slightly darken some surfaces.
Shelf Life	18 months from date of manufacture. One month after opening.
Storage Conditions	Store at 40°F to 120°F (4°C - 49°C). DO NOT FREEZE!

APPLICATION INSTRUCTIONS

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

Coverage Rates

Coverage will depend upon method of application, surface porosity, and the texture of the substrate. Coverage on flat finished concrete is typically 200–400 ft²/gal (4.9–9.8 m²/L). Porous, broom or textured finishes will require more material. As a stain resistant finish coat over surfaces newly stained with SCOFIELD® Revive™ Exterior Concrete Stain, 400–600 ft²/gal (9.8–14.7 m²/L) is typical.

Equipment

Apply SCOFIELD® Repello® FPS by brush, roller, HVLP, airless, or pump-spray application. Always wear protective clothing and equipment proper for the method of application. If using a roller, use a quality 3/8" knap with tapered edges.

Spray applicator Guidelines:

Pump Garden Sprayer: Use conical tip.
Airless spray: 1500–2500 psi (10–17 MPa) fitted with a fan tip of 0.013–0.015 inches (0.33–0.46 mm).
HVLP spray: 5–40 psi (35–275 kPa)

SURFACE PREPARATION

When used as a stain resistant Surface Treatment, Dust Proofer, or Stain Topcoat

Use on cured concrete at least 14 days old. Surfaces must be dry and clean of all prior sealers, curing compound, oils, or other foreign materials that might prevent penetration or adhesion, and meet a Concrete Surface Profile (CSP) of 1, as determined by the International Concrete Repair Institute, (ICRI), Alexandria, VA. Grind, acid etch, power wash, or scrub surfaces with stiff bristle brushes and strong detergents to remove these undesired materials and any loose concrete laitance that may harm adhesion. Always rinse older concrete surfaces and allow them to completely dry prior to application.

If used over solvent based stain, stain should be allowed to cure a minimum of 12 hours to allow solvents to evaporate.

If used over chemical stain, or surfaces acid etched, the surface must be neutralized and rinsed thoroughly prior to application. Failure to do so can cause product to temporarily blush white before drying clear.

Mixing

SCOFIELD® Repello® FPS is milk white. Mix until it is uniform prior to use.

Jobsite Test Sections

Verify and approve suitability and appearance by making jobsite test sections prior to general application. Each individual concrete color, finishing technique, and sealer 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 coated. Product may appear lighter in color until dry.

Distribute product with a pump garden sprayer fitted with a conical tip, followed by back rolling with a quality 3/8" knap roller. Fully saturate the surface then roll puddled material in multiple directions to ensure product penetrates into concrete cracks, joints, and pores. Take care not to create lap marks as they cannot be removed once the product has dried. When the first application is dry to touch, a second coat can be applied to maximize stain resistant properties. Water and stain repellent properties will develop in 4 to 24 hours after drying, depending upon temperature and humidity.

Dry times will depend upon the selected coverage rate, penetration into the substrate, and weather conditions. At 70°F (21°C) and 50 % relative humidity with an application rate of 400 sq. ft. per gallon (9.8 m²/L), dry to touch and recoat times of 1–2 hours are expected. Avoid foot-traffic or heavy rains for a minimum of 12 hours after final application. Water and stain repellent properties will develop after 24 hours.

Cleaning of Equipment

Clean equipment with warm water and detergent immediately after application.

MAINTENANCE

A maintenance application of SCOFIELD® Repello® FPS should be made as necessary to replace material that is removed with normal substrate erosion and wear.

AVAILABILITY/WARRANTY

SCOFIELD® Repello® FPS is marketed internationally through strategically located dealers, and representatives. Scofield offers a complete line of engineered systems for coloring, texturing, and improving performance of architectural concrete. These include 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 for further information.

LIMITATIONS

SCOFIELD® Repello® FPS is not a waterproofing paint or full bodied sealer. Multiple coats or over-application will produce irregular gloss levels. Do not allow material to puddle or build-up in cracks or joints during application. Do not apply when air or surface temperatures are below 45 °F (7 °C), or may be so prior to drying. Do not apply when rain, dew, or surface condensation is expected within 12 hours of application. Do not apply to glass, or frosting may occur.

SCOFIELD® Repello® FPS is not designed for immersion service or for use on surfaces subjected to reverse hydrostatic pressure. Only use SCOFIELD® Repello® FPS on concrete that is above grade or on ground that is well-drained and is not constantly exposed to moisture.

It will not perform properly on surfaces where oil, dirt, prior coating, sealer, or other substances that impede penetration are present. It will not stick to sandy, soft, or heavily eroded surfaces. If any of these are present, it may lose adhesion. It is not designed to be a crack filler or thick film coating, and will not hide surface blemishes, construction errors, or imperfections.

SCOFIELD® Repello® FPS may initially turn white, and then dry clear when used on surfaces acid stained or acid etched. Avoid this by neutralizing and rinsing chemically etched surfaces well prior to application.

Textures and Slip Resistance for Concrete Flatwork:

Although SCOFIELD® Repello® FPS can develop coefficient of friction values exceeding 0.80; always prove surface texture, repellent selection, and application technique as described in Jobsite Test Sections, and evaluate the result for adequate wet and dry slip resistance and SCOF (Static Coefficient of Friction). Test completed projects to ensure floors are safe.

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.

OTHER 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 = 11 g/l

LEGAL DISCLAIMER

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

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA’s Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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