



Repello® FPS Water & Stain Repellent

A proprietary blend of inorganic fluorinated polysiloxane polymers designed to deeply penetrate porous cementitious surfaces and render them both water repellent and resistant to staining from oils, sugars, and common foods. It will not yellow, chalk, or degrade from UV light. The VOC is <50 g/L (0.41 lbs/gal)

TECH-DATA BULLETIN TD-3635.01 Rev. 9.2.2016

1. Product Description:

Repello® FPS is a proprietary blend of inorganic fluorinated polysiloxane polymers designed to deeply penetrate porous cementitious surfaces and render them both water repellent and resistant to staining from oils, sugar, and common foods. It is barely perceptible when dry, and can be used on stamped, etched, sand blasted, or surface retarded concrete slabs and structures.

Because of its deep penetration, it will resist removal from common foot and vehicle traffic. It is suitable for use on flat, angled, and vertical surfaces, will not yellow, chalk, or degrade from UV light. Use to protect kitchen floors, patios, food courts, picnic areas, concrete furniture, or walkways. It can be used to impart water and stain repellency to surfaces treated with LITHOCHROME® Chemstain® Classic or SCOFIELD® Revive™ Exterior Concrete Stain, and may be used to create floors compliant to various ANSI, ASTM, NFSI, and UL traction standards.



UL 410 Standard for Slip Resistance of Floor Surface Materials.

Always evaluate Repello FPS as described in section 6. *Jobsite Test Sections*.

For maximum stain protection that forms a thin non-appreciable film, use SCOFIELD Repello® Water & Stain Repellent.

2. Colors:

SCOFIELD Repello FPS dries clear and colorless.

3. Artistic Effects:

On colored concrete surfaces, or surfaces stained with LITHOCHROME® Chemstain® Classic, or SCOFIELD® Revive™ Exterior Concrete Stain, slight color enrichment or darkening can be expected.

4. Coverage:

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 (5.0–9.8 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.

5. Limitations:

Repello FPS is not a waterproofing paint or full bodied sealer. It is not designed for immersion service or for use on surfaces subjected to reverse hydrostatic pressure. Use only 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 hide surface blemishes, construction errors, or imperfections. 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 40°F (4°C), or may be so prior to drying. Do not apply

when dew, or surface condensation is expected within 4 hours of application, or rain is expected within 12 hours of application. Do not apply to glass, or frosting may occur.

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

Textures and Slip Resistance for Concrete Flatwork:

Although Repello FPS can develop coefficient of friction values exceeding 0.90; always prove surface texture, repellent selection, and application technique as described in section 6. *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.

6. Jobsite Test Sections:

Prior to general application, representative Jobsite Test Section(s) must be produced and approved for each individual concrete surface, and for each color and Repello FPS combination that will be created. Use Jobsite Test Sections to verify system suitability, surface preparation methods, adhesion, safety, performance, wet and dry slip resistance, application techniques, color, visual appearance, and product coverage. Do not proceed with products, techniques, or finishing systems that do not meet required specifications or meet with site owner approval.

Selected Jobsite Test Sections should be in close proximity to the larger job area, and made from the same concrete ingredients and mix design that will later be placed. Test sections should be sized to be representative of the finished project, and be produced by the same workers who will place the concrete and apply the curing compound/sealer system. All test sections should be presented to owners for visual and performance approval prior to beginning main project areas.

7. Packaging:

Repello FPS ships in 1-gallon (3.8L) cans or 5-gallon (19L) pails.

8. Storage and Shelf Life:

DO NOT FREEZE! Unopened and stored at 40°F to 120°F, Repello FPS has an 18 month shelf life from date of manufacture. Once opened, the shelf life is one month.

9. Preparation and Mixing

Repello FPS is white like milk when wet. Mix until it has uniform appearance prior to use.

10. Substrate Penetration:

Concrete or cementitious materials must be cured at least 14 days, prior to application. When used as a stain resistant finish-coat over SCOFIELD® Revive™ Exterior Concrete Stain, the stain must have cured for at least 5 days prior to application.

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, 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 evaluate systems as described in section 6. *Jobsite Test Sections.*

■ **11. Application:**

Apply the first coat of Repello FPS by brush, roller, HVLP, airless, or pump-spray/back-roll application to fully saturate the substrate. Remove puddles with a clean roller. Always wear protective clothing, goggles, gloves, and particulate respirators. Clean equipment with water and detergent immediately after application. Remove overspray immediately with water and detergent. 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.

Spray Applicator Guidelines:

Airless spray: 1500–2500 psi (10–17 MPa) fitted with a fan tip of 0.013–0.015 inches (0.33–0.38 mm).
HVLP spray: 5–40 psi (35–275 KPa) 1.3-1.5mm tip. Dry times will depend upon coverage rate, penetration into the substrate, and weather conditions. At 70°F and 50% relative humidity with an application rate of 400 ft²/gal (10 m²/L), dry to touch and recoat times of 1-2 hours are expected. Avoid foot-traffic for a minimum of 12 hours after final application.

■ **12. Cautions:**

WARNING! MAY IRRITATE EYES, SKIN, AND RESPIRATORY TRACT. DO NOT TAKE INTERNALLY. DO NOT BREATHE IN SPRAY MIST. KEEP OUT OF THE REACH OF CHILDREN.
First Aid: Eyes—DO NOT RUB EYES. FLUSH IMMEDIATELY WITH WATER. Hold eyelids apart while flushing material out thoroughly with large amounts of water. **Skin—**Wash thoroughly with soap and water. Remove soiled clothing and footwear and wash before reuse. **Inhalation—**Move to fresh air. **If symptoms develop or if ingested, get medical attention.** Wash thoroughly immediately after handling. 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*. Repello FPS must never be mixed with LITHOCHROME Chemstain Classic or any other chemical stain. Doing so may produce a dangerous chemical reaction and vapors.

■ **13. Availability**

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.

■ **14. Limited Warranty:**

L. M. Scofield Company (Scofield) represents and warrants only that its products are of consistent quality and within manufacturing tolerances. NO OTHER ORAL OR WRITTEN REPRESENTATION OR STATEMENT OF ANY KIND, EXPRESSED OR IMPLIED, NOW OR HEREAFTER MADE IS AUTHORIZED OR WARRANTED BY SCOFIELD, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Liability for breach of contract, negligence, or on any other legal basis is limited to the lesser of refund or replacement of defective materials. SCOFIELD WILL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING FOR DELAYS OR LOST PROFITS. Communication of this warranty and its limitations to end users is not the responsibility of Scofield, but should be communicated by those in direct contract with the end user. Any claim regarding product defect must be received in writing within one year from the date of manufacture. No claim will be considered without such written notice or after the specified time interval. The end user shall determine the suitability of the products for the intended use, and assumes all risks and liability in connection therewith.

■ **15. Maintenance:**

A maintenance application of Repello FPS should be made periodically to replace material that is removed with normal substrate erosion and wear. All maintenance methods should be tested.

Suggested Short Form Specification for Treating Concrete Flatwork or Facades:

All concrete flatwork and facades designated as being treated in the plans and specifications shall receive two treatments of SCOFIELD Repello® FPS, fluorinated polysiloxane, manufactured by L.M. Scofield Company, 800-800-9900. Scofield Repello FPS shall be applied full strength in accordance with L.M. Scofield Tech-Data Bulletin TD-3635.



1 800 800 9900 or www.scofield.com

SCOFIELD PRODUCTS ARE INTENDED FOR PROFESSIONAL USE ONLY

■ **L. M. Scofield Company customer service:** 1 800 800 9900

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