



# SCOFIELD® Revive™ VOC Sealer

A solvent-borne, colored, durable curing compound and sealer for improving the color uniformity of concrete surfaces colored with Scofield coloring materials. Intended for use in all states except California.

## TECH-DATA BULLETIN B-634.03

### 1 Product Description

SCOFIELD® Revive™ VOC Sealer is designed for improving the appearance of existing, interior or exterior colored concrete flatwork or SCOFIELD® Texturetop® toppings, especially where there may be color imperfections caused during application or by wear and tear. It may also be used as a curing compound for freshly placed colored concrete. SCOFIELD Revive VOC Sealer produces a gloss finish that is resistant to blushing and will not yellow with age or exposure to ultraviolet light, providing significant protection against ultraviolet degradation of the substrate. If a matte finish is required, a finish coat of clear SCOFIELD® Cureseal-VOC™ Matte may be applied once cured.

As a premium-quality concrete curing membrane, SCOFIELD Revive VOC Sealer offers excellent curing properties and moisture retention and meets the requirements of ASTM 1315. As a sealer, SCOFIELD Revive VOC Sealer helps protect against staining from incidental contact with materials such as automotive oil, grease, and food spills. It produces a low-maintenance film that improves resistance to abrasion, freeze-thaw cycles, deicing salts, weather, ultraviolet (UV) radiation, and many chemicals. It is helpful in preventing concrete dusting. Surfaces sealed and protected with SCOFIELD Revive VOC Sealer are easier to clean and maintain than unsealed concrete. It is used as a sealer on building walls, allowing stains from airborne pollutants such as soot and dirt to be washed away with water. SCOFIELD® Traction Additive may be used in conjunction with SCOFIELD Revive VOC Sealer to improve slip resistance.

### 2 Coverage

SCOFIELD Revive VOC Sealer must be applied full strength without thinning using a roller with the appropriate length nap; in most circumstances, a 1/4 inch nap will give the best results. Thinning or reducing SCOFIELD Revive VOC Sealer with a nonexempt solvent is unlawful and will void the performance warranty. Coverage will vary depending on the porosity and texture of the surface.

**For curing freshly placed concrete**, one coat of SCOFIELD Revive VOC Sealer is required at the recommended coverage rate of 300–400 square feet per gallon (7–10 m<sup>2</sup>/L). An additional topcoat of SCOFIELD Cureseal-VOC Gloss or Matte (where a matte finish is required) can be applied over the initial cure coat of SCOFIELD Revive VOC Sealer 30 days after the concrete has been placed and cured. SCOFIELD Traction Additive may be incorporated into this second coat for improved slip resistance.

**For sealing existing, older concrete or SCOFIELD Texturetop**, one coat of SCOFIELD Revive VOC Sealer is required at the recommended coverage rate per coat of 300–500 square feet per gallon (7–12 m<sup>2</sup>/L). If desired, a second coat of SCOFIELD Cureseal-VOC Gloss or Matte (where a matte finish is required) may be applied over the initial coat of SCOFIELD Revive VOC Sealer for additional protection. When using SCOFIELD Traction Additive for improved slip resistance, it must be incorporated into SCOFIELD Cureseal-VOC Gloss or Matte; it must not be added to SCOFIELD Revive VOC Sealer itself.

### 3 Limitations

SCOFIELD Revive VOC Sealer is not intended for sale or use in California or in other jurisdictions where Tertiary Butyl Acetate is not an exempt solvent. As regulations in various

jurisdictions are subject to change, the user is cautioned to check with local authorities for applicable regulatory requirements in any particular area.

SCOFIELD Revive VOC Sealer must only be used on concrete that is placed on a well-drained subgrade and is not subject to hydrostatic pressure. It is not intended for use as a waterproofing material on below-grade surfaces. Alkali or hard-water deposits may form on or under the sealer at edges, cracks, joints, depressions or other locations where water collects or enters the concrete substrate. Damp objects may leave deposits, stains, or discolorations if allowed to remain on the sealed concrete for an extended period of time.

Due to greater retention of moisture in the slab, SCOFIELD Revive VOC Sealer should not be used to cure or seal concrete that contains reactive aggregates since the possibility of pop-outs will be increased.

SCOFIELD Revive VOC Sealer should not be used in areas subject to water submersion or significant chemical exposure, concentrated abrasion and scratching, or metal-wheeled traffic.

SCOFIELD Revive VOC Sealer must be applied at temperatures above 40° F (4° C). Application must not be made on surfaces previously treated with a curing membrane or sealer other than SCOFIELD Revive VOC Sealer without being tested for compatibility.

SCOFIELD Revive VOC Sealer will require periodic maintenance and reapplication due to abrasion or chemical attack. Spills should be removed promptly and floors cleaned regularly to minimize possible staining and damage to the sealer.

#### WARNING!

**SCOFIELD Revive VOC Sealer must only be used in thin coats on surfaces adequately textured for slip resistance. If applied improperly or too heavily, the surface may peel or become slippery, particularly on pool decks or other areas where water may remain on the surface.**

#### TEST SECTION

**Prior to general application, a representative jobsite test section must be produced including casting, finishing, curing, sealing, or finish-coating as applicable to verify and approve suitability, proper surface preparation methods, adhesion, safety, performance, wet and dry slip resistance, application techniques, and coverage.**

### 4 Applicable Standards

SCOFIELD Revive VOC Sealer complies with the following specifications: ASTM C 1315, Type 1, Class A, B, and C; AASHTO Des. M-148-82; Federal Specification TT-C-0800; ASTM C 309; and DE CRD-C-300.

A.I.M. Category: Curing and Sealing Compound, maximum VOC 350 g/L (2.92 lb/gal).

A.I.M. Definition: SCOFIELD Revive VOC Sealer is a liquid membrane-forming compound marketed and sold solely for application to concrete surfaces to reduce the loss of water during the hardening process and to seal old and new concrete, providing resistance against alkalis, acids, and ultraviolet light, and provide adhesion promotion qualities. SCOFIELD Revive VOC Sealer meets the requirements of the American Society for Testing and Materials (ASTM)



Designation C 1315 Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete.

## 5 Colors

SCOFIELD Revive VOC Sealer is available in colors to approximate all colors depicted on Scofield's Color Chart A-312 CHROMIX® Admixtures for Color-Conditioned® Concrete. It is also available in Black and in A-11 Concrete Gray that approximates the color of uncolored concrete made with medium-gray cement. With sufficient prior notification, custom colors can be manufactured per quotation. Contact your SCOFIELD representative for minimum quantity requirements, pricing and lead times.

## 6 Packaging

SCOFIELD Revive VOC Sealer base material (Part B) is available in 4-gallon (15.1 L) pails. SCOFIELD Revive Sealer tint concentrate (Part A) is sold separately in 1-gallon (3.8 L) cans.

## 7 Cautions

### DANGER!

**EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPORS HARMFUL. VAPORS MAY CAUSE FLASH FIRE. HARMFUL OR FATAL IF SWALLOWED. KEEP OUT OF THE REACH OF CHILDREN. CONTAINS PETROLEUM DISTILLATES. MAY AFFECT THE BRAIN OR CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE, OR NAUSEA. CAUSES EYE, SKIN, NOSE, AND THROAT IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL IF SWALLOWED. DO NOT TAKE INTERNALLY.**

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. See MSDS for further information.

Keep away from heat, sparks, and flame. Vapors may cause flash fire. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent buildup of vapors by opening all windows and doors to achieve cross-ventilation. Use only with adequate ventilation. Do not breathe vapors or spray mists. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**First Aid: Eyes**—In case of eye contact, flush immediately with large amounts of water for at least 15 minutes and get medical attention immediately. **Ingestion**—If swallowed, do not induce vomiting. Give conscious victim 1 to 2 glasses of water and get medical attention immediately. **Skin**—Wash thoroughly with soap and water. **Inhalation**—If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately. If symptoms persist or develop, get medical attention.

**In Case of Fire:** Use CO<sub>2</sub> or dry chemical extinguisher. Do not use water spray.

Keep container closed when not in use. If spilled, eliminate all sources of ignition. Contain spilled material and remove with inert absorbent using non-sparking tools. Dispose of contaminated absorbent, container, and unused contents in accordance with all applicable regulations. Do not reuse empty container. Before using or handling, read the *Material Safety Data Sheet and Warranty*.

## 8 Storage and Shelf Life

When stored in the original unopened containers and protected from extreme heat, the shelf life of SCOFIELD Revive VOC Sealer is at least 1 year from the date of purchase. Inventory must be rotated to maintain product that is within shelf life limits.

SCOFIELD Revive VOC Sealer will not freeze and can be stored outside in cold weather. After exposure to freezing temperatures, SCOFIELD Revive VOC Sealer must be allowed to warm up gradually to approximately 40° F (4° C) prior to use.

## 9 Chemical Resistance and Staining

When chemical protection is required or resistance to staining is important, a representative test application must be made on the jobsite substrate to determine if the sealer has suitable resistance. After the test application of SCOFIELD Revive VOC Sealer has fully cured, a minimum of 14 days, the chemical in question should be applied and left on the surface for the maximum possible time it would remain under the expected conditions of service.

## 10 Textures and Slip Resistance

Surfaces that are not slip resistant to meet the intended use must be roughened by some mechanical method. Adequate precautions must be taken to ensure that the surface is not slippery. SCOFIELD Traction Additive will help improve slip resistance when used according to directions.

For safety considerations, a representative jobsite test section must be prepared and sealed prior to general application and the entire surface inspected after completion to verify and approve the adequacy of wet and dry slip resistance.

## 11 Equipment for Preparation and Application

When using equipment and materials during preparation and installation, suitable protective gear must be worn and government regulations, manufacturer's instructions, and all applicable safety requirements must be followed.

Use of a pressure washer, a rotary floor machine, or a walk-behind scrubbing machine will facilitate surface preparation on cured concrete floors. Smaller areas may be cleaned using a handheld scrubber, washed thoroughly, and inspected for cleanliness. For mixing, a paint stick suited for a 5-gallon pail must be used. A roller with the appropriate length nap is required for applying SCOFIELD Revive VOC Sealer. The nap length required is determined by the depth of the texture. Start by using a 1/4 inch nap roller and work up to a longer nap if required by the substrate texture to determine the minimum nap length that will obtain the recommended coverage rate in section 2. *Coverage*.

### WARNING!

**Any electrical equipment used with SCOFIELD Revive VOC Sealer must be explosion proof or otherwise designed specifically for use with solvent-based products. Care must be taken to prevent sparks at electrical outlets or wherever solvent vapors may be present.**

## 12 Preparation for Sealing

During cleaning and stripping procedures, all surrounding areas should be closed to traffic, roped off, and protected.

To reduce hard-water and alkali deposits, sprinklers and fountains should be adjusted to avoid wetting of the surface. In hard-water areas, soft water should be considered for use in water features. Construction joints should be sealed with a high-quality joint sealant.

All washed or wet areas must be allowed to dry thoroughly before application of SCOFIELD Revive VOC Sealer or moisture may be trapped under the sealer, causing a white haze to develop.



**Newly placed concrete cured with SCOFIELD Revive VOC Sealer** should receive a seal coat of either SCOFIELD Revive VOC Sealer in the matching color or SCOFIELD Cureseal-VOC Gloss or Matte if additional protection is required. The seal coat is applied over the initial cure coat of SCOFIELD Revive VOC Sealer 30 days after the concrete has been placed and cured.

Immediately prior to applying the seal coat, the concrete must be thoroughly cleaned. Additional preparation methods are described below and in section 15. *Maintenance and Removal*.

**Existing concrete** must have a uniformly slip-resistant surface. Surfaces that are not slip resistant must be roughened by some mechanical method. Concrete previously sealed with SCOFIELD Revive VOC Sealer should be prepared as described in section 15. *Maintenance and Removal*.

Before sealing concrete surfaces that have not been previously sealed with SCOFIELD Revive VOC Sealer, remove all contaminants and bond-inhibiting materials from the surface. Failure to remove all contaminants will cause appearance defects, adhesion loss or peeling, and reduced durability.

Concrete not previously cured or sealed with SCOFIELD Revive VOC Sealer must be cleaned completely so that the surface is penetrable. All washed or wet areas must be allowed to dry completely before application of SCOFIELD Revive VOC Sealer.

All applicable federal, state, and local safety, disposal, and other regulations, including OSHA, must be followed.

**Exterior flatwork or interior floors topped with SCOFIELD Texturetop** must be sufficiently cured to walk on without damage prior to sealing, at least 16–24 hours after installation at 70° F (21° C) and 50% relative humidity. Dust, slurry residue, or other contaminants must be removed from the Texturetop surface by light pressure washing. All washed or wet areas must be allowed to dry completely before SCOFIELD Revive VOC Sealer is applied. Do not use aggressive removal methods before the topping has adequately hardened, a minimum of 14 days after installation.

### 13 Mixing

SCOFIELD Revive VOC Sealer is supplied as a two-component kit consisting of a coloring agent (Part A tint concentrate) and a base material (Part B base), packaged in separate containers. In most cases, the entire contents of the Part A tint concentrate is added to the Part B base material; where a more transparent color is desired, a fraction of the Part A tint concentrate may be used. Careful measuring is essential when using fractional amounts of the Part A tint concentrate.

Thoroughly mix Part A before adding to Part B. Empty the contents of the Part A container into Part B. Using a paint stick suited for a 5-gallon pail, hand-stir the material until a streak-free color is reached. This will take approximately 3 minutes. **Caution: Do not use a power drill and paddle to mix the material.**

After combining the components, material from different lot numbers should be mixed together (boxed) to minimize the possibility of color variation. If protected from extreme heat, SCOFIELD Revive VOC Sealer may be premixed and stored in closed containers without reduction in shelf life until needed for use. It must be mixed again immediately prior to use.

### 14 Application as a Sealer

If an older concrete slab is to be protected with SCOFIELD Revive VOC Sealer or an additional seal coat is to be applied to newly placed concrete cured with SCOFIELD Revive VOC Sealer, all surfaces must be properly prepared as described in section 12. *Preparation for Sealing*.

One coat of SCOFIELD Revive VOC Sealer is usually sufficient on new concrete previously cured with SCOFIELD Revive VOC Sealer or for sealing existing concrete or SCOFIELD Texturetop surfaces. When a matte finish is desired, an initial

coat of SCOFIELD Revive VOC Sealer must be applied, followed by a topcoat of SCOFIELD Cureseal-VOC Matte. The topcoat can be applied as soon as the initial coat of SCOFIELD Revive VOC Sealer has dried sufficiently, normally 1–2 hours depending on temperature and humidity.

All open flames, pilot lights, sparking equipment, or any other source of ignition must be extinguished or removed. The surface should be divided into work sections using walls, joint lines, or other stationary features as natural stopping points. This allows for easier control of coverage, wet edge, and overlap.

During application the sealer must be spread as thinly and evenly as possible. Curbs, risers, or walls are easily coated. A wet edge should be maintained, and overlap controlled. SCOFIELD Revive VOC Sealer should not be overapplied or allowed to puddle or collect in joint indentations.

The sealer should be applied on a calm day when concrete and air temperatures are between 50 and 80° F (10–27° C) and will not fall below 40° F (4° C). The surface must be dry and not subject to moisture that may interfere with the sealer drying properly. Application should not be made during rainy, foggy, or very humid weather when water condensation forms on the surface. On hot, dry days, application should be made during the cooler part of the day and when the concrete is in the shade.

After application is finished, tools should be cleaned with an aromatic solvent following the solvent manufacturer's instructions and safety requirements. SCOFIELD Revive VOC Sealer or SCOFIELD Cureseal-VOC Matte must be allowed to dry completely, normally 8–24 hours, before it is subjected to temperatures below 40° F (4° C) or to water from any source, such as hoses, sprinklers, condensation, or rain.

After the sealer is completely dry, the area may be opened to light use after a minimum of 8 hours and to general use after a minimum of 24 hours. Longer drying times are helpful and will be necessary if temperatures are lower or the humidity is higher. The full performance capabilities of SCOFIELD Revive VOC Sealer or SCOFIELD Cureseal-VOC Matte develop within approximately 24 hours after application at 70° F (21° C) and 50% relative humidity.

To avoid staining, the sealed surfaces should be protected from damage by other trades until they are fully cured. Heavy objects dropped or dragged will abrade the surface of the sealer.

All sealed surfaces should be thoroughly inspected to verify and approve installation and safety, including wet and dry slip resistance, before the area is opened to traffic.

### 15 Maintenance and Removal

All maintenance and removal methods must be tested, and all surrounding areas should be closed to traffic, roped off, and protected.

Interior interior concrete floor surfaces and SCOFIELD Texturetop toppings sealed with SCOFIELD Revive VOC Sealer should be maintained by using a compatible, slip-resistant, emulsion-type, commercial floor finish following the manufacturer's instructions and safety requirements.

A maintenance application of SCOFIELD Revive VOC Sealer should be made periodically as the sealer is worn off the surface. The need for maintenance applications will be accelerated in areas of heavy use or that receive frequent or aggressive cleaning. It is not necessary to strip the previously applied sealer unless film buildup is heavy or the surface cannot be cleaned sufficiently. Previously applied floor finish should be completely removed following the manufacturer's instructions and safety requirements. All dirt and contaminants must be completely removed from the surface of the sealer, and the surface thoroughly rinsed and allowed to dry.



Wear paths, scratches, scrapes, and other areas where the sealer has been removed by wear or cleaning should be spot-sealed with SCOFIELD Revive VOC Sealer, feathering the sealer into the surrounding surface. After the spot-sealed areas are completely dry, the sealer may be reapplied and slip resistance verified following the instructions in section 14. *Application as a Sealer*. Care must be taken so that excessive buildup of the sealer does not occur, thereby reducing durability and slip resistance.

When complete removal of SCOFIELD Revive VOC Sealer is necessary, commercial coating removers or strippers should be tested and evaluated for safety and effectiveness following the manufacturer's instructions and safety requirements.

**16 Availability**

SCOFIELD Revive VOC Sealer is marketed nationwide and internationally, directly to the user 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.

**17 Limited Warranty**

Since no control is exercised over product use, L. M. Scofield Company (Scofield) represents and warrants only that its products are of consistent quality within manufacturing tolerances. NO OTHER ORAL OR WRITTEN REPRESENTATION OR STATEMENT OF ANY KIND, EXPRESS 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.

***Suggested Short Form Specification for Curing and Sealing Concrete Flatwork:***

All concrete flatwork designated as being cured and sealed in the plans and specifications shall be cured and sealed with SCOFIELD® Revive™ VOC Sealer (*optional:* and top-coated with SCOFIELD® Cureseal-VOC™) manufactured by L. M. Scofield Company, (800) 800-9900, Los Angeles, CA, (323) 720-3000, and Atlanta, GA, (770) 920-6000. SCOFIELD® Revive™ VOC Sealer (*optional:* and SCOFIELD® Cureseal-VOC™) shall be applied full strength in accordance with Scofield's Tech-Data Bulletins B-634 and B-614.



1 800 800 9900 or [www.scofield.com](http://www.scofield.com)

SCOFIELD PRODUCTS ARE INTENDED FOR PROFESSIONAL USE ONLY

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