



# SCOFIELD® Liquid Release SG

An economical, scented, liquid bond breaker for use when imprinting concrete or cementitious toppings with mat-type texturing tools or embossing skins to provide easy release of the tool.

## TECH-DATA BULLETIN T-614.01

### 1. Product Description:

SCOFIELD® Liquid Release SG is developed for use when stamping freshly placed colored or uncolored concrete or imprintable cementitious toppings. It promotes easy release of stamping and texturing tools and improves results by preventing transfer of the wet paste when the tools are removed from surfaces. The release agent forms a bond-breaking barrier that helps prevent the tools from sticking and marring the pattern in the fragile surface of the fresh concrete or cementitious topping. The pleasant, bubblegum-type scent helps to identify the product.

SCOFIELD Liquid Release SG may be applied on the face of mat-type texturing tools or embossing skins and to the surface of freshly placed concrete flatwork before imprinting. It is suitable for use on surfaces which have been colored with LITHOCHROME® Color Hardener and for use on the surface of SCOFIELD® Texturetop® Stamp Grade System cementitious toppings. SCOFIELD Liquid Release SG evaporates completely, leaving no residue on the concrete that would affect the surface appearance or impair the bond of coatings or treatments applied later.

SCOFIELD Liquid Release SG is developed for use with LITHOTEX® Pavecrafters® and will not cause degradation of the tools. LITHOTEX Pavecrafters are mat-type imprinting tools or embossing skins which improve control of pattern depth and produce a consistent pattern depth over the entire surface of the concrete installation. Information about imprinting concrete or cementitious toppings is available in Scofield Tech-Data Bulletin T-404 LITHOTEX Pavecrafters.

### 2. Coverage:

Apply full strength. Coverage will vary depending on timing, method of finishing prior to imprinting, application techniques, effect desired, tools used, and jobsite or other conditions.

For spraying the tools, the coverage rate is approximately 400 square feet per gallon (10 m<sup>2</sup>/L). For spraying the concrete surface the coverage rate is approximately 200 square feet per gallon (5 m<sup>2</sup>/L).

### 3. Limitations:

SCOFIELD Liquid Release SG has a flash point of 142–150° F (61–65° C). As it is combustible, it should not be used in areas where open flames, ignition sources such as water heaters or furnaces, or welding tools are present.

All tools must be thoroughly cleaned of all residue or other liquid releases and be allowed to dry completely prior to use with SCOFIELD Liquid Release SG.

SCOFIELD Liquid Release SG is not intended for use as a vertical formwork release.

The freshly placed concrete should be dry enough so that moisture does not migrate to the surface, where it will replace the liquid release and cause the texturing tool to stick.

### 4. Composition and Materials:

SCOFIELD Liquid Release SG is a proprietary formulation which is colorless and evaporates without leaving a residue. It is formulated to break the bond between mat-type concrete-texturing tools and the surface of freshly placed concrete or cementitious toppings.

### 5. Applicable Standards:

Professional concreting standards and practices, including those published by the American Concrete Institute (ACI) and the Portland Cement Association (PCA), should be followed.

### 6. Sizes:

SCOFIELD Liquid Release SG is available in 5-gallon (18.9 L) pails.

### 7. Cautions:

#### WARNING!

**COMBUSTIBLE LIQUID AND VAPORS. 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. KEEP OUT OF THE REACH OF CHILDREN.**

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 the 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 dust, 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 TC-84A approved) during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

IN CASE OF FIRE: Use CO<sub>2</sub> or dry chemical extinguisher. Do not use water spray.

First Aid: Eyes—In case of eye contact, flush immediately with plenty 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.

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. Before using or handling, read the *Material Safety Data Sheet and Warranty*.



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**8. Storage and Shelf Life:**

SCOFIELD Liquid Release SG should be stored indoors or in the shade away from direct sunlight and with a tightly closed lid.

When stored indoors in the original unopened container and protected from extreme heat, the shelf life of SCOFIELD Liquid Release SG is at least 1 year from the date of purchase. Inventory must be rotated to maintain product that is within shelf life limits.

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**9. Jobsite Samples:**

Producing imprinted architectural concrete requires skill and practice. Jobsite samples must be produced to allow selected colors, materials, coverage rates, tools, and construction techniques to be evaluated and adjusted or changed when needed.

At least one month prior to concrete placement, a sample slab and, if included in the design, vertical surfaces such as risers and retaining walls, must be produced and approved for each pattern and layout specified. Samples must be of representative size, a minimum of 100 square feet (10 m<sup>2</sup>), so that the color combinations, pattern layout, installation techniques, and timing can be confirmed and the finished sample(s) approved. All procedures should be performed by the same workers that will produce the project imprinted concrete, using the same techniques, materials, and required tools or equipment.

For safety considerations, the entire surface of the jobsite sample must be inspected after completion to verify and approve the adequacy of wet and dry slip resistance.

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**10. Equipment and Materials:**

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

**For application to texturing tools or the concrete slab,** a solvent-resistant hand-pump sprayer equipped with a fine-fog nozzle is required. When conditions are windy, a fan spray nozzle should be used. The hand-pump sprayer must be of professional quality with a consistent output to ensure even coverage. All parts that will be in contact with the liquid release must be made from solvent-resistant materials.

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**11. Preparation:**

Surrounding areas and adjacent surfaces should be protected, work areas roped off and appropriate sections closed to traffic. For exterior hardscapes, landscaping should be protected, parked vehicles removed, and doors and windows closed in nearby buildings.

Weather conditions should be considered when planning outdoor installations. Professional practices as described in ACI standards *305R Hot Weather Concreting* and *306R Cold Weather Concreting* should be followed. Windy conditions will severely affect the application rate of the liquid release.

All texturing tools must be washed thoroughly prior to application of SCOFIELD Liquid Release SG to remove any concrete residue or previously applied releases. After washing, the tool must be allowed to dry completely prior to application of the liquid release.

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**12. Application:**

Immediately prior to imprinting, the SCOFIELD Liquid Release SG should be sprayed in a fine misting spray evenly across the surface of the clean imprinting tool and the concrete or topping surface. Sufficient material should be applied so that a uniform but fairly light coverage is attained.

SCOFIELD Liquid Release SG evaporates and it must be reapplied periodically. The required timing of the reapplication is influenced by temperature, humidity, air movement and sun exposure, and will vary from job to job. Whenever the tools show indication of sticking to the concrete, the liquid release should be reapplied.

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**13. Availability:**

SCOFIELD Liquid Release SG is marketed nationwide and internationally, directly to the user and 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.

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**14. Warranty Summary:**

For the complete warranty statement and important limitations, read the *Material Safety Data Sheet and Warranty*. Generally, Scofield represents and warrants only that its products are of consistent quality. No other oral or written statement is authorized. Any liability is limited to refund or replacement of defective product. The end user shall determine product's suitability and assume all risks and liability.



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

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SCOFIELD PRODUCTS ARE INTENDED FOR PROFESSIONAL USE ONLY

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

**Western Headquarters:** 6533 Bandini Blvd., Los Angeles, CA 90040 **voice:** 323 720 3000 **fax:** 323 720 3030

**Eastern Headquarters:** 4155 Scofield Road, Douglasville, GA 30134 **voice:** 770 920 6000 **fax:** 770 920 6060

[www.scofield.com](http://www.scofield.com)