



# LITHOTEX® Liquid Release

A high-performance, odorless, liquid bond breaker for use when imprinting concrete flatwork or cementitious toppings with mat-type texturing tools or embossing skins to provide easy release of the tool.

## TECH-DATA BULLETIN T-604.05

### 1. Product Description:

LITHOTEX® Liquid Release is intended for use when imprinting freshly placed colored or uncolored concrete flatwork 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 imprinted surfaces. The release agent forms a bond-breaking barrier that helps prevent the tools from sticking to the fresh concrete or cementitious topping and marring the imprinted pattern in its fragile surface.

LITHOTEX Liquid Release is applied on the face of mat-type texturing tools or embossing skins and to the surface of freshly placed concrete flatwork or cementitious toppings 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. LITHOTEX Liquid Release is safe for use on all freshly placed colored or uncolored concrete or cementitious toppings and is odorless during application.

LITHOTEX Liquid Release was 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 (unthinned). Coverage will vary depending on timing, method of finishing prior to imprinting, application techniques, effect desired, tools used, and jobsite or other conditions.

The texture of the surface of the tool or the finish applied to the concrete prior to stamping will affect the amount of material required. Rough finishes will require more liquid release than flat finishes.

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). A more exact coverage rate can be determined by casting representative jobsite samples as described in section 9. *Jobsite Samples* and noting the amount of material needed per square foot.

### 3. Limitations:

LITHOTEX Liquid Release has a flash point above 150° F (66° 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.

LITHOTEX Liquid Release is compatible with all LITHOTEX Pavecrafters texturing tools and embossing skins. If other imprinting tools are used, compatibility must be determined by testing prior to usage.

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

LITHOTEX Liquid Release 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:

LITHOTEX Liquid Release is a proprietary liquid formulation which is colorless and odorless. It is formulated to break the bond between mat-type concrete-texturing tools and the surface of 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.

LITHOTEX Liquid Release complies with applicable air quality management regulations that restrict VOC content to less than 450 g/L (3.75 lb/gal).

### 6. Packaging:

LITHOTEX Liquid Release is available in 1-gallon (3.8 L) and 5-gallon (18.9 L) pails.

### 7. Cautions:

#### WARNING!

**COMBUSTIBLE LIQUID AND VAPOR. MAY CAUSE EYE AND SKIN IRRITATION. MAY CAUSE RESPIRATORY IRRITATION. HARMFUL IF SWALLOWED. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

Contains paraffins (petroleum). Keep away from heat, sparks, or flame. Do not get in eyes, on skin, or clothing. Use only with adequate ventilation. Ensure fresh air entry during application and drying. If you experience eye watering, headaches or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear a properly fitted P100/organic vapor respirator (NIOSH TC-84A approved) during and after application. Follow respirator manufacturer's directions for respirator use. Store upright in tightly closed containers away from combustible materials and sources of heat. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations. Do not reuse empty container.

First Aid: Eyes—DO NOT RUB EYES. FLUSH IMMEDIATELY WITH WATER. Hold eyelids apart while flushing material out thoroughly with large amounts of water. Ingestion—GET MEDICAL ATTENTION IMMEDIATELY. Skin—Wash thoroughly with soap and water. Remove soiled clothing and footwear and wash before reuse. Inhalation—Move to fresh air.

If symptoms persist or develop, get medical attention. Wash thoroughly immediately after handling. Close container after each use. Before using or handling, read the *Material Safety Data Sheet and Warranty*.

**8. Storage and Shelf Life:**

LITHOTEX Liquid Release 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 LITHOTEX Liquid Release is at least 1 year from the date of purchase. Inventory should be rotated to maintain product that is within shelf life limits.

**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.

**10. Equipment and Materials:**

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.

**For application to texturing tools or the concrete slab,** a hand-pump sprayer equipped with a fine-fog nozzle is required. When conditions are windy, use a fan spray nozzle. The hand-pump sprayer must be of professional quality with a consistent output to ensure even coverage.

**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 use with LITHOTEX Liquid Release to remove any concrete residue or previously applied releases.

**12. Application:**

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

LITHOTEX Liquid Release 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 or topping surface, the liquid release should be reapplied.

After imprinting operations are complete, the imprinted surface must be cleaned and any remaining liquid release residue removed prior to the application of a chemical stain, curing compound or sealer. Using a commercial detergent, lightly scrub the surface with a soft-bristle push broom. After scrubbing, rinse the surface thoroughly with fresh water until the rinse water is completely clean.

**13. Availability:**

LITHOTEX Liquid Release 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.

**14. 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.



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

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)