

## PRODUCT DATA SHEET

# LITHOCHROME<sup>®</sup> Tintura Stain

A HIGH PERFORMANCE, LOW-ODOR, REACTIVE POLYMER STAIN FOR INTERIOR OR EXTERIOR CONCRETE AND OTHER CEMENTITIOUS SURFACES

### PRODUCT DESCRIPTION

LITHOCHROME<sup>®</sup> Tintura Stain is a high performance low-odor, reactive polymer stain for coloring interior or exterior vertical or horizontal concrete and other cementitious surfaces. Designed for direct application, its reactive chemistry bonds strongly to surfaces so that even thin applications resist degradation from weather and ultra-violet light.

LITHOCHROME<sup>®</sup> Tintura Stain is semi-opaque. It can be applied lightly to gently tone surfaces, layered to simulate the variegated effects of reactive acid stains, or applied to full opacity for a paint like appearance.

LITHOCHROME<sup>®</sup> Tintura Stain is not designed as a stand-alone floor finish. After application, it must be sealed with a premium protective coating such as Scofield<sup>®</sup> Selectseal Plus<sup>™</sup>, Scofield<sup>®</sup> Cureseal-S<sup>™</sup>, Scofield<sup>®</sup> Cureseal-VOC<sup>™</sup>, or Scofield<sup>®</sup> Cureseal-100<sup>™</sup>.

### USES

Use on new or aged surfaces where low odor products are required, for jobsites that must be quickly returned to service, or on areas where managing the application and runoff of chemical acid stain application would be impractical.

### CHARACTERISTICS / ADVANTAGES

- Self-crosslinking acrylic and inorganic silicate polymers penetrate, strengthen, and tightly bind color.
- Quick-dry, low odor formula minimizes job delays.
- Resists color bleed from solvent or water based top-coats.
- Can be layered to simulate natural stone.
- Apply by brush, roller, or spray equipment.

### PRODUCT INFORMATION

<b>Chemical Base</b>	Self-crosslinking water based acrylic polymers, lithium silicate.
<b>Packaging</b>	1-gallon (3.8 L) cans labeled as Part B designed to be colored with 6 oz. Part A tint cups. Colors that require less tint are packaged partially full.
<b>Appearance / Color</b>	Available in the 24 standard colors shown on Scofield's Color Chart A-422 LITHOCHROME <sup>®</sup> Tintura Stain. Because Tintura is translucent, the final color of light applications will be influenced by the underlying surface. Final color will be influenced by the sealer selected. Colors shown on the chart are results from heavy, near opaque, application to smooth troweled concrete made with gray cement and sealed with SCOFIELD <sup>®</sup> Selectseal Plus <sup>™</sup> .
<b>Shelf Life</b>	1 year from date of manufacture. Tint cups are 2 years from date of manufacture. Once opened or mixed with tint, the shelf life is 1 month.

## 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. Tintura is designed to penetrate surfaces. If applied heavily over tape, it will crawl and stain under the tape. When tape masking is used, spray application of multiple light coats is recommended.

### Coverage Rates

Coverage will vary depending on the porosity and texture of the surface, surface preparation, and application technique. Typical coverage rate is 300–800 ft<sup>2</sup> per gallon (7.0–20 m<sup>2</sup>/L). For light cloud effects, coverage up to 1,200 ft<sup>2</sup>/gallon is possible.

### EQUIPMENT

Apply LITHOCHROME® Tintura Stain 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 or thinner with tapered edges.

### Spray applicator Guidelines:

Airless spray: 1500–2500 psi (10–17 MPa) fitted with a fan tip of 0.013–0.018 inches (0.33–0.46 mm).  
HVLP spray: 5–40 psi (35–275 kPa)

### SURFACE PREPARATION

Concrete must be fully cured and a minimum of 21 days old. Surfaces must be dry and clean of all prior sealers, curing compound, oils, or other deleterious materials that might prevent penetration or adhesion, and meet a Concrete Surface Profile (CSP) of 1, as determined by the International Concrete Repair Institute, (IRCI), 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 surfaces and allow them to completely dry prior to application.

### MIXING

Mix each component separately until it is uniform. Tintura Part B is milk white and will look like a heavy cream prior to tinting. Combine Part A and Part B and mix until it is again uniform consistency and appearance. The material is now ready for use. Some heavier tints will produce more material than the gallon container of Part B will hold. In these cases, products should be mixed together in a clean plastic pail. If lighter or less opaque colors are desired for artisan effects, the use of less than an entire tint cup is allowed and will not impact product performance.

## APPLICATION

### Factors Influencing Final Color & Appearance

The final color and appearance will be influenced by original surface color, application technique, amount of tint cup used, and final sealer selection.

### Jobsite Test Sections

Verify and approve suitability and appearance by making jobsite test sections prior to general application. Apply each stain color onto each type and age of concrete or topping surface, and use each application technique and sealer that is to be used. 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.

### Stain Application

Mask all areas not to be stained 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 stained.

Spray application is preferred. Spray onto surfaces with continuous circular motion, layering light coats to achieve desired levels of opacity and color variation. If performing roller application, roll in multiple directions to ensure stain penetrates into concrete cracks, joints, and pores. Take care not to create lap marks as they cannot be removed once the product has dried.

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 sq. ft. per gallon (10 m<sup>2</sup>/L, dry to touch times of 1 hour are expected. Additional coats of same or different colors to produce artistic effects can be performed onto stain that is still wet, or after it has dried.

Allow to dry for at least 12 hours before application of any topcoat. Primary hardness is achieved in 24 hours, with additional curing taking place over 3–7 days depending upon temperature and substrate type.

### CLEANING OF TOOLS

Clean equipment with warm water and detergent immediately after application.

## AVAILABILITY/WARRANTY

### Availability

LITHOCHROME Tintura is marketed internationally through strategically located dealers, and representat-

ives. 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](http://www.scofield.com) for further information.

## LIMITATIONS

**Tintura is not designed for immersion service** or for use on surfaces subjected to reverse hydrostatic pressure. 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. It is not designed to be a thick film coating, and will not hide surface blemishes, construction errors, or imperfections.

Prior to application, ensure that concrete is dry by confirming that the Moisture Vapor Emission Rate (MVER) is below 5 lbs./1000 sq. ft. per 24 hours, or test to determine. Do not apply when air or surface temperatures are below 45°F (7°C), or may be prior to drying.

## 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.

## LOCAL 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 = 50 g/l.

**Sika Corporation**  
201 Polito Avenue  
Lyndhurst, NJ 07071  
Phone: 800-933-7452  
Fax: 201-933-6225

**Sika Canada Inc.**  
601 Delmar Avenue  
Pointe Claire  
Quebec H9R 4A9  
Phone: 514-697-2610  
Fax: 514-694-2792

**Sika Mexicana S.A. de C.V.**  
Carretera Libre Celaya Km. 8.5  
Fracc. Industrial Balvanera  
Corregidora, Queretaro  
C.P. 76920  
Phone: 52 442 2385800  
Fax: 52 442 2250537



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## LEGAL DISCLAIMER

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