



**Subject to change. Contact Solomon Colors/Brickform for most up-to-date information*

001: Product Description

Lythic SPD Protector is a high performance coating designed specifically for the protection of polished concrete surfaces. **Lythic SPD Protector** utilizes new protection technology that achieves resistance to stains, acid etching, and liquid penetration similar to epoxy coatings while remaining breathable. SPD (Silica-Polymer-Dispersion) is a two-part polymer combined with nano-sized colloidal silica. **Lythic SPD Protector** bonds directly to the concrete, enhancing color, and providing significantly greater protection and longer service life than conventional stain protectors or guards. The nano-sized technology allow **Lythic SPD Protector** to produce a super thin film, retaining the appearance of polished concrete.

002: Features & Advantages

- High performance coating
- Advanced stain protection
- Elevated chemical resistance
- Durable traffic-wear resistance
- High traction rating (*National Floor Safety Institute*)
- Dries clear
- Enhances color
- Will not yellow over time
- Bonds to highly polished concrete
- Easy to burnish
- Improves gloss reading
- Simplifies future maintenance

003: Sustainability

Lythic SPD Protector increases the durability and performance of a concrete surface, extending its service life and minimizing materials and energy consumption for its replacement.

- South Coast Air Quality Management District compliant
- Low VOC formula
- Increased coverage rates
- No hazardous waste created
- Qualifies for LEED credits

004: Materials Packaging

Lythic SPD Protector is available in two size kits:

- 2 gallon / 7.6 lt Kit (*Part A&B Combined*)
- 4 gallon / 15.2 lt Kit (*Part A&B Combined*)

**Parts A&B must be fully mixed together before use.
See section 007 for mixing instructions*

005: Coverage Rates

Lythic SPD Protector will yield different coverage results depending on the porosity of the floor. Test on a small sample area to determine appropriate application rate and technique before applying to entire project area. **(See Section 009: Project Testing)*

Use these coverage rates as a starting point to determine necessary application rate. Coverages are based on a mixed gallon of part A&B:

- 1000 to 1500 ft² per mixed gallon (*24.5 to 36.8 m² / lt*)

** Example: 2 gallon kit will cover 2000 to 3000 ft²*

006: Storage & Shelf Life

Lythic SPD Protector should be kept in the original container when possible, with the lid fastened tightly.

Lythic SPD Protector has an optimized shelf life of 12 months from the date of manufacture.

- Keep in a dry place.
- Temp range of 40-100°F or 4-38°C.
- Do not allow to freeze.

MIXING & APPLICATION

007: Mixing

Lythic SPD Protector is a two-part-kit. The two components must be completely mixed together. No dilution is necessary.

- 1) Before opening, agitate both part A&B.
- 2) Use a clean five gal pail for mixing part A&B.
- 3) Pour part A into the five gal pail.
- 4) Ensure all of part A is in the pail and stir slowly.
- 5) Pour part B into the five gal pail.
- 6) Slowly stir part B into part A in the five gal pail.
- 7) Ensure all of part B is in the five gal pail.
- 8) Use a paint stirrer to scrape the side of the five gal pail.
- 9) Slowly mix for an additional 1 to 2 minutes

** Important: Mix using a low speed drill and mixing paddle or stir with a paint stirrer. Do not mix quickly or entrap air.*



SPD PROTECTOR

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007: Mixing (Continued)

Lythic SPD Protector has a 45 to 60 minute pot-life and cannot be remixed. When the material begins to harden in the mixing pail, stop using it immediately. Calculate the quantity of material needed for the immediate working area, in most cases only one kit needs to be mixed then applied. Start mixing the next kit approximately 5 minutes before needed.

008: Equipment

- Paint stirrer
- 5 gal pails
- Low speed drill and mixing paddle
- Paint roller pan
- Short-nap lint-free or micro-fiber paint roller

*Note: High quality rollers normally produce best results

009: Project Testing

To assure that desired performance and appearance specifications are met, test a sample area of each slab to be treated using the proposed methods and techniques, coverage rates, and equipment, with the work performed by the same installation personnel who will do the project.

010: Pre-Application

Advanced planning is critical to all successful concrete work, notations worth considering when using **Lythic SPD Protector**.

- Any adjacent areas, surfaces, or objects not intended to be treated with **Lythic Products** should be protected with plastic sheeting or other proven protective material.
- Surface must be clean and structurally sound, clear of membrane forming curing compounds, oils, dust, and other surface contaminants that will prevent **Lythic SPD Protector** from having full contact with the concrete. Do not use acidic or aggressive detergents when cleaning before or after application of **Lythic Products**. Use **Lythic Cleaner** or other pH neutral cleanser.
- Measure area that will require **Lythic Products**.

- Only mix an appropriate quantity of **Lythic SPD Protector** for a manageable working area during the given pot-life. Per instructions in Section 007: Mixing. Using estimated coverage rates in Section 005: Coverage Rates.

- Designate trained operator(s) to apply **Lythic SPD Protector** throughout project to ensure consistent application.

011: Application Guidelines

Every project will present variables that may require adjustment of application procedures during the project. **Lythic SPD Protector** is intended for professional use by experienced contractors.

11-a: Application

- 1) Pour **Lythic SPD Protector** into roller pan/tray.
- 2) Evenly coat the roller with material.
- 3) Apply material evenly to the concrete surface.
- 4) Do not allow to puddle or leave a thick coating.
- 5) Roll the material slowly to reduce entrapped air.
- 6) Overlap roller mark to remove trace lines.

When applying **Lythic SPD Protector**, maintain a wet edge during application and work toward a pre-determined location to stop, usually a control joint or door threshold.

Make sure the minimum coverage rates of 1000 ft² per mix gallon is achieved.

11-b: Dry & Cure Times:

- Tack-free surface: 2 to 4 hours
- Light foot traffic: 4 to 6 hours
- High speed burnishing: 12 to 24 hours
- Fully cured in 72 hours

Air flow will speed up dry and cure times. Do not allow standing water to remain on the surface during the first 72 hours.



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012: Limitations & Important Notes

- **Lythic SPD Protector** is intended for interior applications only.
- **Lythic SPD Protector** will need periodic inspection for potential wear traffic patterns.
- Although **Lythic SPD Protector** is a high performance coating, it is not recommended to leave any liquids or chemical spills for extended periods of time.
- Jobsite samples are strongly recommended prior to application of all **Solomon/Brickform** and **Lythic products**.

013: Industry Compliance

- VOC Compliant
- National Floor Safety Institute
- LEED-Green Building Rating System
- GreenSpec listed
- OSHA & ADA non-slip requirements

014: Lythic System Products:

- **Lythic DAY1**(Troweling aid)
- **Lythic Densifier**(Small particle densifier)
- **Lythic Densifier XL**(Larger particle densifier)
- **Lythic Protector**(Color enhancer & protector)
- **Lythic SPD Protector** ... (Color enhancer & protection)
- **Lythic Cleaner**(Colloidal silica cleaning agent)
- **Pro-Dye**(Penetrating colorant concentrate)
- **Stealth Seal**(Penetrating sealer)
- **Solomon Colors**(Integral color for concrete)
- **Brickform**(Sealers and processes for concrete)

HEALTH & SAFETY

015: Precautions

WARNING: FOR PROFESSIONAL USE ONLY. Before using product, read product SAFETY DATA SHEET (SDS) and instructions on packaging. ALKALINE CONCENTRATE: Contact can damage eyes, skin, and other body tissues. HANDLE WITH CARE. Eye and skin irritant. Digestive tract irritant; DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN.

Spray mist is respiratory tract irritant. Use only with adequate ventilation. Do not breathe vapors or spray mist. Avoid contact with eyes, skin, clothing. Observe appropriate safety and jobsite controls. Wear appropriate protection including eye protection and chemical-resistant gloves. Ensure fresh air-flow during application and until dry. If you experience headaches, dizziness, eye watering, or if air monitoring shows vapor/mist levels above applicable limits, wear a properly fitted P100/organic vapor respirator (NIOSH TC-84A approved), used according to manufacturer's directions, during application and drying. SLIP/FALL DANGER: During application of **Lythic SPD Protector** and until dry, treated surface will be slippery. Use extreme care when walking on wet **Lythic SPD Protector**.

016: First Aid

Ingestion: Not expected to be toxic. Never give an unconscious person anything to ingest. If swallowed, immediately give two glasses of water, seek medical attention if ill effects develop.

Inhalation: May cause irritation. Remove to fresh air and provide oxygen. If not breathing, give artificial respiration. Seek medical attention if irritation persists.

Eye Contact: Flush with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

Skin Contact: May cause irritation. Wash affected area with soap and water. Remove contaminated clothing and shoes. Seek medical attention if irritation persists.

017: Physical Properties

AppearanceMilky white liquid
VOC Content.....<50 g/l (VOC- free)
Material pHapx 9.5-10
Freeze point 32°F - 0°C

018: Warranty

Lythic Products are intended for use by licensed contractors and installers, experienced and trained in the use of these types of products. It is warranted to be of uniform quality, within manufacturing tolerances.



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The manufacturer has no control over the use of this product, therefore, no warranty, expressed or implied, is or can be made either as to the effects or results of such use. In any case, the manufacturer's obligations shall be limited to refunding the purchase price or replacing **Lythic Products** proven defective. The end user shall be responsible for determining product's suitability and assumes all risks and liability.

Additional Information & Technical Support:

This document covers the basic guidelines and instructions for the use of **Lythic Products**. Further instruction or technical information related to specifying **Lythic Products** or systems are available upon request. Contact Solomon Colors or your local distributor: