



Cleaner

Technical Information Sheet

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Colloidal Silica is at the heart of Lythic technology.

It is a substance that reacts with the chemistry of concrete to produce more cementitious material, which translates into higher performance concrete.

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SPECIFICATION: Section 03 35 00 Concrete Finishing

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001: PRODUCT DESCRIPTION

Lythic Cleaner with colloidal silica is a mild, non-corrosive, pH-neutral concrete cleanser that improves concrete surfaces as it cleans. Its colloidal silica content bonds with exposed concrete, improving surface hardness to help resist abrasion.

Cleaning is vital to the continued performance of architectural concrete floors, removing abrasive dirt and debris that can compromise the protection layer or scratch the polish. **Lythic Cleaner** is specially formulated to be compatible with a wide range of concrete finishes including decorative finishes, mild yet effective.

Lythic Cleaner goes beyond cleansing, adding silica to the surface to reinforce the protection layer, improving resistance to abrasion and liquid penetration.

Lythic Cleaner is designed for everyday cleaning of concrete floors. It is an excellent choice for cleaning and maintaining polished concrete and other decorative finishes.

002: FEATURES & ADVANTAGES

Lythic Cleaner can be used for regular, everyday maintenance of concrete floors, and provides multiple advantages and benefits:

- ◇ Mild, safe, and non-corrosive
- ◇ Removes abrasive materials
- ◇ Adds silica during cleaning
- ◇ Maintains and replenishes concrete protection
- ◇ No rinsing required
- ◇ Water-based
- ◇ Concentrate formula reduces shipping and storage

003: SUSTAINABILITY

Exposed concrete is an inherently sustainable flooring solution that is durable, and offers a very long service life with only simple maintenance. It lowers materials- and energy-consumption by eliminating the need for frequently-replaced floor covering materials. In many situations, the concrete itself is already installed, further reducing materials-consumption. Exposed concrete floors require minimal, low-impact maintenance, thereby lowering maintenance energy-consumption and eliminating harsh chemicals and solvents used to strip and wax some floor coverings.

Lythic Cleaner has specific sustainability benefits:

- ◇ Ships as concentrate to lower environmental impacts
- ◇ No-rinse formula saves water resources
- ◇ Low-impact, non-solvent cleanser
- ◇ Maintains floor finish, reducing energy-consumption for floor refinishing

004: MATERIALS PACKAGING

Lythic Cleaner is packaged as a concentrate. Packaging Detail:

- ◇ 1 gallon /3.8 liter container
- ◇ 4 gallon / 15 liter package (4 containers, 1 gal/3.8L each)
- ◇ 5 gallon / 19 liter bucket
- ◇ 55 gallon / 209 liter drum
- ◇ 270 gallon/ 1022 liter tote

Lythic Cleaner concentrate is intended to be diluted with water before use. **(See section 007: Mixing & Dilution)*

005: COVERAGE RATES

Lythic Cleaner is designed to be used in an auto-scrubber. Calculate coverage based on the particular auto-scrubber in use, using dilution rate of 8:1. **(See Section 007 Mixing and Dilution)*

006: SAFETY PRECAUTIONS

WARNING: FOR PROFESSIONAL USE ONLY. BEFORE USING PRODUCT, READ MATERIAL SAFETY DATA SHEET (MSDS) AND INSTRUCTIONS ON PACKAGING. ALKALINE CONCENTRATE: CONTACT CAN DAMAGE EYES, SKIN AND OTHER BODY TISSUES. HANDLE WITH CARE. EYE AND SKIN IRRITANT: MAY CAUSE BURNS AND TRANSIENT CORNEAL DAMAGE. DO NOT TAKE INTERNALLY: MAY BE HARMFUL OR FATAL. KEEP OUT OF REACH OF CHILDREN. RESPIRATORY TRACT IRRITANT. USE ONLY WITH ADEQUATE VENTILATION. Do not breathe vapors or spray mist. May cause headache, dizziness, nausea, weakness, shortness of breath. 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.

007: MIXING & DILUTION

Lythic Cleaner is shipped as a concentrate. For general cleansing use, it must be diluted with clean potable water in a ratio of 8:1 (i.e. 4 fl. oz. **Lythic Cleaner** per gallon of water).

For heavily soiled areas, a stronger mixture can be used, diluted 4:1 (i.e. 8 fl. oz. **Lythic Cleaner** per gallon of water).

**(For spot cleaning use of concentrate, see Section 011 -c Spot Cleaning.)*

- 1 - Before opening **Lythic Cleaner** container, shake to agitate the concentrate.
- 2 - Pour one part **Lythic Cleaner** concentrate into mixing container or directly into auto-scrubber.
- 3 - Add eight parts clean potable water to make **Lythic Cleaner** Ready-to-Use (RTU) mixture, or four parts water to make **Lythic Cleaner** Heavy-Soil mixture.

We recommend calculating the quantity of material needed for the immediate work at hand, and only making as much **Lythic Cleaner** RTU mixture as needed. Left over RTU mixture can be stored in an air-tight container, and needs to be used within 2 months after being mixed from concentrate, or the stated expiration date, whichever comes first. Manufacturing date can be found within the batch number on the original packaging. Over prolonged periods of time, RTU mixture may settle. Before using RTU mixture, agitate container to mix contents.

***IMPORTANT:** The water used to dilute **Lythic Cleaner** concentrate must be clean potable water. Any contaminants in the water could reduce the shelf life of RTU mixture.

008: EQUIPMENT

Apply using auto-scrubber, or hand mop with two buckets. (One bucket for application and the second for rinse water)

009: PRE-APPLICATION

- ◇ Measure area (square feet/m²) that will require **Lythic Cleaner**.
- ◇ Mix an appropriate quantity of **Lythic Cleaner** for job-size, per instructions in Section **007: MIXING & DILUTION**.
- ◇ Sweep, dry mop, or vacuum floor to remove loose dirt and debris
- ◇ Gum and other larger residue should be scraped off the floor before cleaning.

010: APPLICATION GUIDELINES

The information provided is best practice guidelines for **Lythic Cleaner**. Every project will present variables that may require adjustment of application procedures during the job. These guidelines are based on terminology used within the concrete and flooring industry sector.

010-A AUTO-SCRUBBER APPLICATION

- 1 - Use according to auto-scrubber manufacturer's directions.
- 2 - For heavily soiled areas, increase dwell time.
- 3 - Allow to dry. No floor-rinsing is required.

010-B – HAND MOP APPLICATION.

Mop applications require a separate rinse-water bucket to clean and wring mop as it applies **Lythic Cleaner**.

- 1 - Apply one mop-load of **Lythic Cleaner** and spread on floor.
- 2 – Rinse mop in clean water and wring out before re-loading with **Lythic Cleaner**.
- 3 - Replace clean water frequently to maintain effectiveness of cleaning.
- 4 - Allow to dry. No floor-rinsing is required.

010-C SPOT CLEANING

Lythic Cleaner can be effective for spot cleaning oils and grease stains. Use full strength **Lythic Cleaner** concentrate. (undiluted)

- 1 - Apply a small amount to stain.
- 2 - Allow to dwell for 15 minutes.
- 3 - Then gently agitate spot to remove stains.

011: NEXT STEPS

Sweep, dry mop, or vacuum daily to remove loose dirt and

debris. Integrity and performance of the stain protection layer should be checked yearly by the original installer or similarly qualified professional.

012: LIMITATIONS & IMPORTANT NOTES

♦ **Lythic Cleaner** is designed to clean common soiling substances. It is not intended to remove mastic or flooring adhesives.

♦ Jobsite samples are strongly recommended prior to application of all Solomon/Brickform and Lythic products.

013: LYTHIC DENSIFIER USED IN CONJUNCTION WITH:

- ♦ **Lythic DAY1**(Troweling aid and curing agent)
- ♦ **Lythic Densifier**(Larger particle densifier)
- ♦ **Lythic Densifier XL**(Larger particle densifier)
- ♦ **Lythic SPD Protector**(Color enhancer & stain protection)
- ♦ **Lythic Protector** (Color enhancer & stain reducer)
- ♦ **CONTRAZZO**(Polished concrete overlay system)
- ♦ **Pro-Dye**(Penetrating colorant concentrate)

Other Solomon/Brickform products can be used in conjunction with **Lythic Cleaner.*

014: PHYSICAL PROPERTIES

Appearance.....tinted liquid
Odor.....slight
VOC Content..... 96 g/l
pHapx 9.5
Freeze point..... 32°F- (0° C)
Shelf Life..... 18 Months

015: STORAGE & SHELF LIFE

Lythic Cleaner should be kept in the original container when possible, with the lid fastened tightly. **Lythic Cleaner** concentrate has an optimized shelf life of 18 months from the date of manufacture. This date is available on the batch reference number on the original container.

Storage of RTU mixture: see Section **007: Mixing & Dilution**

Keep in a cool, dry place raised off the floor. Keep in temperature range of 40–100°F / 4–38°C.

***Important: Do Not Allow to Freeze**

016: WARRANTY

Lythic Cleaner is 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 manu-

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 Cleaner** proven defective. The end user shall be responsible for determining product's suitability and assumes all risks and liability.

017: FIRST AID

Ingestion: If person is conscious, give 1/2 glass of milk or water. **DO NOT INDUCE VOMITING.** Call poison control center, emergency room, or physician immediately. Never give anything orally to an unconscious or convulsing person.

Inhalation: Remove from exposure to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Keep person calm and quiet. Get medical attention immediately.

Eye Contact: Immediately flush with plenty of water for 15 minutes. Seek medical attention.

Skin Contact: Flush affected area with plenty of water. Avoid prolonged or repeated exposure.