

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

**001: Product Description**

DAY1 is a colloidal silica finishing aid that lubricates the surface for faster, easier finishing. DAY1 extends workable time under adverse conditions such as high wind, heat, or low humidity. DAY1 eliminates the need to add water to the surface which can be detrimental to the surface performance of the slab. It can also be used to help finish shake-on hardeners in low bleedwater environments. Concrete with high cement, air, silica fume, or silica flower are easier to finish when DAY1 is applied.

Colloidal silica is at the heart of DAY1 technology. The amorphous silica reacts during the hydration of concrete to produce more cementitious material, translating into higher density and improved surface performance.

DAY1, applied during finishing, provides a number long-term of benefits to cured concrete. DAY1 reduces surface evaporation, mitigating and reducing ASR, slab curling, and differential shrinkage. DAY1 also has densification properties to prevent dusting and reduces efflorescence in colored and standard concrete.

**002: Features & Advantages**

- Lubricates for more efficient surface finishing
- Reduces operator fatigue and trowel wear
- Extends workability under hot, dry, and windy conditions
- Aids application of shake-on hardeners
- Reduces efflorescence with colored & standard concrete
- Minimizes checking, crazing & scaling
- Hardening & densification during troweling
- Increases impact and abrasion resistance
- Creates a less permeable surface
- Increases surface compressive strength by 20%-30%
- Reduces water vapor transmission \*(MVER)
- Colloidal silica chemical reaction reduces CO<sub>2</sub> migration
- Decreases potential for alkali silica reaction - \*(ASR)
- Reduces potential for slab curling
- Concentrate and Ready-to-Use Formulas
- Will not increase the W/C ration
- Does not affect or change color

**003: Sustainability**

DAY1 increases the durability and performance of a concrete surface, extending its service life and minimizes material and energy consumption for its replacement.

- South Coast Air Quality Management District compliant
- Zero-VOC formula
- Ships as concentrate to lower environmental impact
- Reduces shipping and storage costs
- No hazardous waste created
- Qualifies for LEED credits

**004: Materials Packaging**

**DAY1 Concentrate 4:1**

(Gold DAY1 Logo)

- 1 gallon / 3.78 liter jug
- 5 gallon / 19 liter pail
- 55 gallon / 208 liter drum
- 270 gallon / 1021 liter tote (IBC)



*\*Note the concentrated product will yield 5 times the volume when mixed 4:1 with clean potable water.*

**DAY1 Reay-to-Use**

(Green DAY1 Logo)

- 1 gallon / 3.78 liter jug
- 5 gallon / 19 liter pail
- 55 gallon / 208 liter drum
- 270 gallon / 1021 liter tote (IBC)



**005: Coverage Rates**

DAY1 will yield different results based on the jobsite conditions and usage demands. Before floating or troweling, test DAY1 on a sample section 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 ready-to-use (RTU) gallon of DAY1. DAY1 can be applied at multiple stages during finishing.

Application Needs	Coverage Rate (US, per gallon)	Coverage Rate (Metric, per liter)
Finishing Aid	500 - 1000 ft <sup>2</sup>	12 - 24 m <sup>2</sup>
Performance Concrete	250 - 500 ft <sup>2</sup>	6 - 12 m <sup>2</sup>

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### 006: Storage & Shelf Life

**DAY1** should be kept in the original container when possible with the lid fastened tightly. **DAY1** has an optimized shelf life of 24 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 & Dilution

**DAY1** is available in two concentrations. Consult the package label to ensure correct mixing and usage.



(*Gold DAY1 Logo*) is shipped and packaged in concentrate formula. Before use, it must be diluted with clean potable water, 4:1.

- 1) Before opening, agitate **DAY1** concentrate.
- 2) Use clean potable water to mix with **DAY1**.
- 3) Mix in container or directly into sprayer.
- 4) Ratio: one part **DAY1** to four parts water.
- 5) Mix, agitate or stir well.
- 6) Pour **DAY1** directly into sprayer.



(*Green DAY1 Logo*) is shipped and packaged in Ready-to-Use formula requiring no mixing.

- 1) Before opening, agitate **DAY1** Ready-to-Use.
- 2) Pour **DAY1** RTU directly into sprayer.

#### 008: Equipment

Apply **DAY1** using a low-pressure pump sprayer. Use either a fan tip or a cone tip for even spraying. Automatic low pressure sprayers can also be used for larger projects. **DAY1** can also be applied through the water tanks of a ride-on trowel.

#### 009: Project Testing

Every batch of concrete is unique and its behavior varies depending on surrounding conditions. Testing is only relevant on the actual batch being finished. At the

beginning of floating, and again at the beginning of troweling, test **DAY1** on a small sample section to verify needed application rate and technique.

#### 010: Pre-Application

Advanced planning is critical to all successful concrete work. Notations worth considering when using **DAY1**:

- Mix enough **DAY1** concentrate into RTU for the project.
- Check spraying equipment is in working order.
- Protect adjacent areas that do not require **DAY1**.

#### 011: Application Guidelines

**DAY1** is designed to be used during the floating and troweling stages of concrete placement. Multiple applications can be applied as needed throughout the finishing process. There are two uses for **DAY1**. The first is as a finishing aid to help concrete placement crews deliver a smooth, flat finish. The second is to increase the overall performance of the concrete surface.

##### 001-a: Finishing Aid

**DAY1** should be applied when needed to help finish concrete. Applied at an average rate of 500 to 1000 ft<sup>2</sup>/gal per application and worked in to the concrete by floating or finishing either by hand or mechanical trowels.

Multiple applications can be used throughout the finishing process. Do not exceed 250 ft<sup>2</sup>/gal per application. Typically, 1, 2, or 3 applications worked into the concrete will provide high levels of finishing.

##### 011-b: Performance Concrete

The term performance concrete refers to the chemical enhancements of the surface. Although the finishing applications will add to some of the overall performance, it is important to apply **DAY1** early to maximize the chemical interaction.

Applying **DAY1** at the first bull float or mechanical trowel stage at a rate of 250 ft<sup>2</sup>/gal ensures the colloidal silica is worked deeply into the cement matrix. Then use **DAY1** when, or as needed to help finish the slab. See section 011a: Finishing Aid.

**011-c: General Application**

- 1) Dilute **DAY1** according to instructions in Section 007: Mixing & Dilution before use.
- 2) Pour **DAY1** RTU mixture into sprayer. Keep the sprayer at optimized levels, allowing even distribution when applying to concrete surface. Or pour into the water tanks on the ride-on trowel.
- 3) Spray apply to concrete surface during floating or troweling at the predetermined application rates.
- 4) Float or trowel surface. **DAY1** must be worked into the surface of the concrete immediately after application. Full benefit will not be realized if **DAY1** is allowed to dry prior to being worked into surface. Finisher should determine when additional **DAY1** is needed to improve workability.

It is recommended to apply **DAY1** throughout the entire project for most consistent results. **DAY1** can be applied both before and after the application of dry-shake hardeners/color hardeners, and may be especially useful when there is a limited amount of bleed water to wet-out the powdered hardeners.

**012: Limitations & Important Notes**

- **DAY1** reduces porosity of the concrete surface, but should not be confused with concrete sealers; it will not seal or prevent staining.
- **DAY1** must be floated or troweled into the concrete immediately after application and not allowed to puddle or pond on the surface.
- **DAY1** reduces moisture vapor emissions and will aid curing. **DAY1** is not a membrane-forming curing compound. **DAY1** is not a replacement for specified curing compounds.
- Do not exceed 200 ft<sup>2</sup>/gal in a single application. Make sure to thoroughly work in each application of **DAY1** before additional **DAY1** is applied.
- Jobsite samples are strongly recommended prior to application of all **Solomon/Brickform** and **Lythic Products**.

**013: Industry Compliance**

- VOC Compliant
- LEED-Green Building Rating System
- GreenSpec listed

**014: Lythic System Products:**

- DAY1 .....(Troweling aid)
- Lythic Densifier .....(Smaller 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 a 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 **DAY1** and until dry, treated surface will be slippery. Use extreme care when walking on wet **DAY1**.

**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**

Appearance .....Milky white tinted liquid  
VOC content..... <0 g/l (Low- VOC)  
Active ingredients.....100% of total solids  
Material pH .....apx 9-9.5  
Freeze point ..... 32°F - 0°C

#### **018: Warranty**

**Solomon Colors / 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. 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.