SURFACE DEACTIVATOR
FOR EXPOSED AGGREGATE CONCRETE SURFACES

PRODUCT GUIDE

CLASSIC.
CONSISTENT.
MODERN.
CLEAN.

SOLOMON COLORS, INC. • An Employee Owned Company
Corporate Headquarters: 4050 Color Plant Rd., Springfield, IL 62702 • Western Facility: 1371 Laurel Ave., Rialto, CA 92376

Trademark Concrete Systems, Inc.
Exposed aggregate is one of the earliest modern decorative concrete finishes. In recent years, this classic finish has seen a major revival in popularity as simplicity and modernity are back en vogue. Exposed aggregate combines a clean, classic appearance with practical non-skid, hard wearing surfaces. Modern surface retarding chemicals such as Surface Deactivator make exposed aggregate easier, faster, and more consistent than ever.
Surface Deactivator brings simplicity and consistency to the equation like never before. Sandblasting, aggregate seeding, and sugar-based retarders require precise timing and great effort to get the kind of result modern concrete contractors demand. Uneven exposures and inconsistent aggregate patterns can keep a project from obtaining that next level of perfection.

Using unique chemistry, Surface Deactivator halts the cement reaction to any one of 11 predetermined depths. With this kind of precision, contractors can count on Surface Deactivator to yield the results they desire, every time. Surface Deactivator is the next development, making this classic finish easier than ever.
Surface Deactivator by Solomon Colors makes exposed aggregate finishes easier and more consistent. It is topically applied to freshly-placed concrete to prevent cement paste hardening and achieve more controlled exposed aggregate finishes. Unlike sugar-based retarders with uncertain levels of retardation, Surface Deactivator selectively halts the hydration process down to a controlled depth.

Eleven predetermined depths of exposure are available, color-coded for identification, to provide consistent, repeatable cement paste removal and aggregate reveal. Because Surface Deactivator provides a longer window before the surface paste must be removed, it allows underlying concrete to harden properly, locking in aggregate and reducing pop-outs. Surface Deactivator is water-soluble for easy removal with high-pressure water washing and scrubbing equipment.

Surface Deactivator creates a polymeric film that acts as a water retention barrier and temporary curing agent, protecting fresh concrete from light rain and reducing moisture loss. Surface Deactivator can be applied to newly-placed concrete that is specified for diamond polishing. It softens surface cement paste, reducing heavy grinding stages up to 75%, dramatically decreasing polishing time as well as diamond-tooling and labor costs.

Surface Deactivator offers many features and advantages:

- Controlled, repeatable exposure depth
- Available in 11 predetermined depths
- Exposure depths numbered and color-coded
- Extended exposure time and reliability
- High performance coverage rate
- Vibrant visual coverage control; non-staining
- Performs in hot and cold conditions
- Film-forming and quick drying
- Polymer film reduces moisture loss
- Protects fresh concrete against light rain
- Solvent-free, water-soluble
- VOC compliant

Surface Deactivator comes with a new look and new Beige, Extra Light Etch exposure! Same application. Same chemistry. Now easier to use with more options!

### Available in 1-gallon bottles & 5-gallon pails

<table>
<thead>
<tr>
<th>Product #</th>
<th>Color Code</th>
<th>Exposure Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSD-01 Beige</td>
<td>Extra Light Etch (0.1 mm)</td>
<td></td>
</tr>
<tr>
<td>SSD-02 Purple</td>
<td>Acid Etch (0.2 mm)</td>
<td></td>
</tr>
<tr>
<td>SSD-05 Blue</td>
<td>Light Sandblast (1/64&quot;) (0.5 mm)</td>
<td></td>
</tr>
<tr>
<td>SSD-10 Brown</td>
<td>Medium Sandblast (1/32&quot;) (1 mm)</td>
<td></td>
</tr>
<tr>
<td>SSD-20 Green</td>
<td>Heavy Sandblast (1/16&quot;) (2 mm)</td>
<td></td>
</tr>
<tr>
<td>SSD-25 Yellow</td>
<td>Exposure (3/32&quot;) (2.5 mm)</td>
<td></td>
</tr>
<tr>
<td>SSD-30 Red</td>
<td>Exposure (7/64&quot;) (3 mm)</td>
<td></td>
</tr>
<tr>
<td>SSD-40 Gray</td>
<td>Exposure (5/32&quot;) (4 mm)</td>
<td></td>
</tr>
<tr>
<td>SSD-50 Mustard</td>
<td>Exposure (3/16&quot;) (5 mm)</td>
<td></td>
</tr>
<tr>
<td>SSD-55 White</td>
<td>Exposure (13/64&quot;) (6.5 mm)</td>
<td></td>
</tr>
<tr>
<td>SSD-65 Orange</td>
<td>Exposure (1/4&quot;) (6.5 mm)</td>
<td></td>
</tr>
</tbody>
</table>
CLEAN.

SURFACE DEACTIVATOR

Images courtesy Trademark Concrete Systems, Inc.
001: PRODUCT DESCRIPTION
Surface Deactivator uses water-based chemistry engineered for architecturally refined sand finishes and exposed concrete surfaces. Available in 11 color-coded depths of exposure, it allows for a more controlled and even reveal of the desired aggregate texture.

002: USE
Topically applied to freshly-placed concrete flatwork or other open-faced concrete surfaces, such as precast panels or specialized paver production. Surface Deactivator prevents hardening of the cementitious paste for easy removal to a predetermined depth of exposure.

003: FEATURES
- Repeatable exposure and reveal
- 11 standard depths of exposure
- Each exposure is color and number coded
- Colored for visual coverage control (Non-staining)
- High performance coverage rates
- Extended application
- Perform in hot and cold conditions
- High performance coverage rates
- Solvent free VOC compliant

004: STORAGE & SHELF LIFE
Surface Deactivator should be kept in the original container when possible, with the lid fastened tightly. Surface Deactivator has an optimized shelf life of 24 months from the date of manufacture. This date is available on the batch reference number on the original container. Mix well before use. Do not allow to freeze.

005: MATERIALS PACKAGING
Available in 1 gal, 5 gal, 55 gal & 264 gal containers.

006: COVERAGE RATES
Surface deactivator will cover 200 - 400 sf/gal. Coverage rates will vary depending on the type of spray and the surface texture of the concrete during application.

007: EQUIPMENT
Surface Deactivator can be applied with most sprayer types. Sprayer selection will affect the overall coverage rates. The most economical sprayer is an automatic high volume low pressure (HVLP) sprayer.

008: PRODUCT CODE / COLOR / EXPOSURE DEPTH

<table>
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<tr>
<th>Product #</th>
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<th>Exposure Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>00-01</td>
<td>Beige</td>
<td>Light Acid (0.1mm)</td>
</tr>
<tr>
<td>00-02</td>
<td>Purple</td>
<td>Acid (0.2mm)</td>
</tr>
<tr>
<td>00-03</td>
<td>Blue</td>
<td>Light Sandblast (0.64f) (0.3mm)</td>
</tr>
<tr>
<td>00-10</td>
<td>Brown</td>
<td>Medium Sandblast (1/16&quot;) (1mm)</td>
</tr>
<tr>
<td>00-20</td>
<td>Green</td>
<td>Heavy Sandblast (1/8&quot;) (.2mm)</td>
</tr>
<tr>
<td>00-25</td>
<td>Yellow</td>
<td>Exposure (3/32&quot;) (2.5mm)</td>
</tr>
<tr>
<td>00-30</td>
<td>Red</td>
<td>Exposure (1/4&quot;) (3mm)</td>
</tr>
<tr>
<td>00-40</td>
<td>Gray</td>
<td>Exposure (3/32&quot;) (2.5mm)</td>
</tr>
<tr>
<td>00-50</td>
<td>Mustard</td>
<td>Exposure (3/16&quot;) (.5mm)</td>
</tr>
<tr>
<td>00-55</td>
<td>White</td>
<td>Exposure (13/64&quot;) (5.5mm)</td>
</tr>
<tr>
<td>00-65</td>
<td>Orange</td>
<td>Exposure (1/2&quot;) (6.5mm)</td>
</tr>
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009: APPLICATION GUIDELINES
Apply Surface Deactivator as soon as possible during placement and finishing of the concrete. Surface Deactivator will only stop hydration of the surface from the time of application forward.

Should the concrete surface begin hardening before Surface Deactivator is applied, it cannot reverse hydration that has already taken place. This is why a representative job-site sample is important. *See section 002: Project Testing.

010: REMOVAL GUIDELINES
Surface Deactivator deposits the surface layer of the concrete from hardening. When the underlying concrete has attained sufficient hardness, normally ranging from 6 to 12 hours after initial placement. In many cases the surface is washed the following day no longer than 24 hours. Timing and removal should be determined during the project testing and job-site samples. *See Section 012 Project Testing.

011: REMOVAL METHODS
- Running water and push broom
- High pressure washing
- Rotary buffer with bristle attachment and water

*When washing the surface to expose aggregate, it is important to dispose of the slurry in accordance with EPA and individual state environmental regulations.

012: PROJECT TESTING
To assure that performance and desired appearance are achieved, a test sample is recommended. Use the proposed treatment methods and techniques, coverage rates, equipment as well as the proposed mix design. Where possible use the same personnel to produce the job-site sample who will be present during the project. The test section should be large enough to properly represent the overall project.

013: PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity</td>
<td>(liquid)</td>
</tr>
<tr>
<td>VOC Content</td>
<td>(Individually Color Coded)</td>
</tr>
<tr>
<td>pH</td>
<td>4-6 (VOC free)</td>
</tr>
<tr>
<td>Freeze Point</td>
<td>(32°F - 0°C)</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>(24 Months)</td>
</tr>
</tbody>
</table>

014: WARRANTY
Surface Deactivator 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 manufacturing tolerances. The manufacturer has no control over the use of this product, therefore, any 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 Surface Deactivator proven defective. The end user shall be responsible for determining product’s suitability and assumes all risks and liability.

015: CONCRETE / ADMIXTURES / CURING / MIX-DESIGN
CONCRETE: The information provided in this document is based on a standard 6 sack (564 lbs/cu yd) or (355 kg/m³)

ADMIXTURES: Concrete admixtures that affect set times could alter the performance of Surface Deactivator and should be included in job-site samples to assess overall workability and performance.

CURING: DO NOT APPLY CURING AGENTS over Surface Deactivator. Concrete slabs treated with Surface Deactivator do not need to be covered with plastic or wet-burlap to aid curing. During extreme hot, windy or cold weather conditions, covering the slab may be beneficial to maintain moisture consistency at the surface of the concrete. Allow the Surface Deactivator to dry for 30 minutes before curing. The unique characteristics of Surface Deactivator can produce a polymeric film that acts as a water retention barrier until washed off and a cure/sol is applied.

Brickform Cure & Seal or Sealers can be applied once the surface removal has taken place and in accordance with the chosen product guidelines.

MIX DESIGN
Aggregates to sand rates in the concrete mix design will determine the overall exposure appearance equally to the specific depth of Surface Deactivator. Sand finishes will require more sand and coarse aggregate finishes require less sand and more aggregate. Work with your local ready-mix producer to qualify the required concrete mix design.
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