

# SURFACE DEACTIVATOR

FOR EXPOSED AGGREGATE CONCRETE SURFACES



Trademark Concrete Systems, Inc.

**SGS** SOLOMON  
COLORS, INC.

**BRICKFORM**  
A Division of Solomon Colors, Inc.

# SURFACE DEACTIVATOR

FOR EXPOSED AGGREGATE CONCRETE SURFACES

## PRODUCT GUIDE



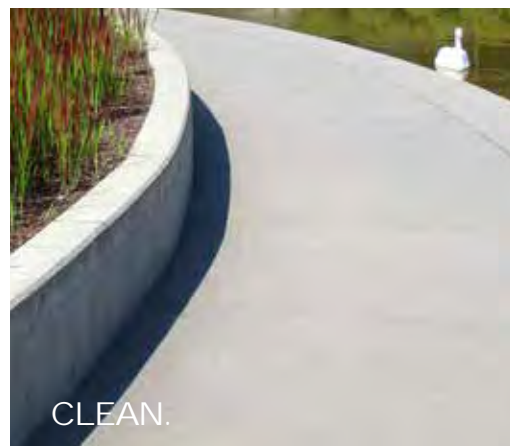
CLASSIC.



CONSISTENT.



MODERN.



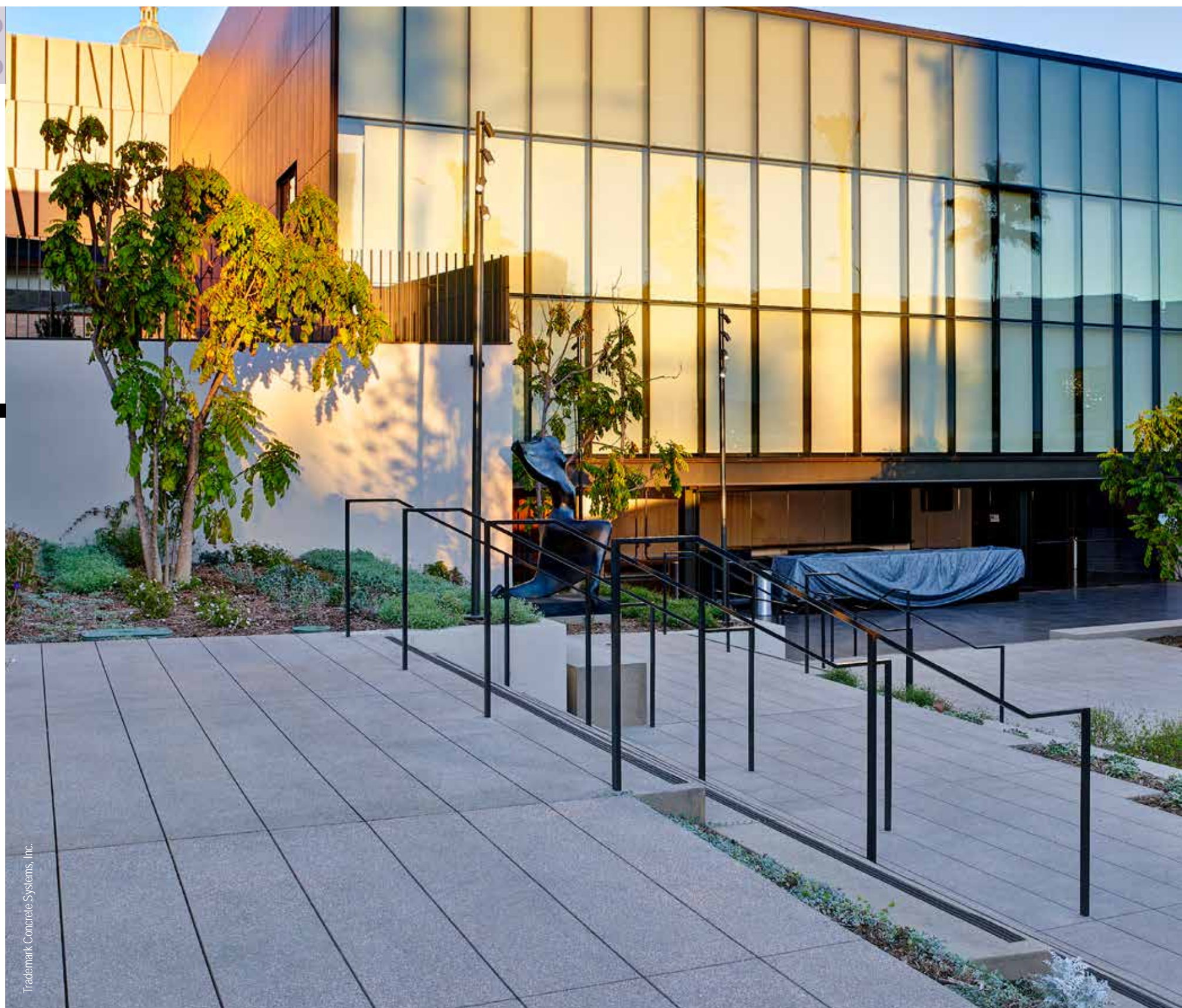
CLEAN.

RC Concrete



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# SURFACE DEACTIVATOR

SURFACE  
DEACTIVATOR

# EXPOSED AGGREGATE



THIS TIME-HONORED  
TECHNIQUE GETS A  
DESERVED SECOND LOOK

**E**xposed 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.



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EXPOSED AGGREGATE

Images courtesy Trademark Concrete Systems, Inc.



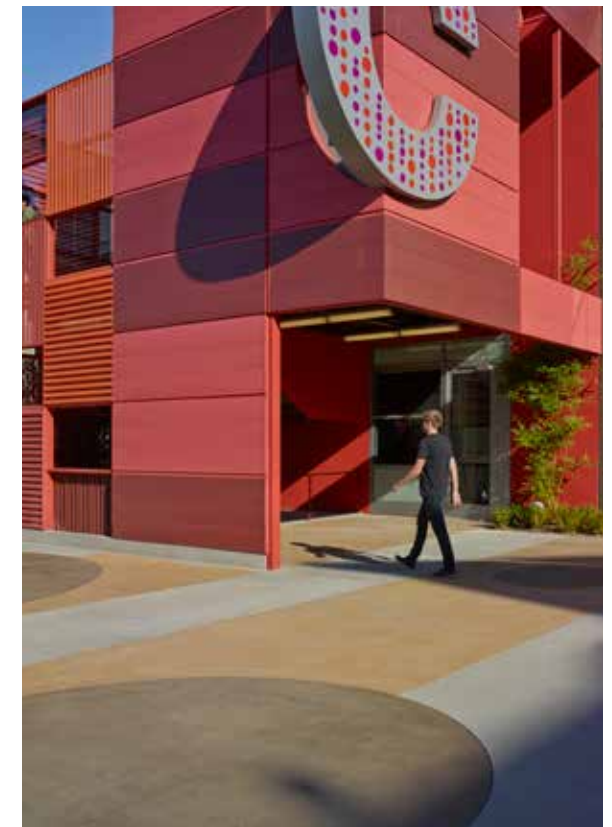
Images courtesy Trademark Concrete Systems, Inc.

# PRECISE RESULTS

## SURFACE DEACTIVATOR BRINGS EXPOSED AGGREGATE TO THE NEXT LEVEL

**S**urface 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

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## ENGINEERED CHEMISTRY FOR EXPOSED CONCRETE SURFACES

**S**urface Deactivator by Solomon Colors makes exposed aggregate finishes easier and more consistent. It is typically 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 comes with a new look and new Beige, Extra Light Etch exposure! Same application. Same chemistry. Now easier to use with more options!



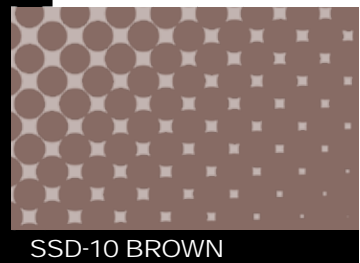
SSD-01 BEIGE



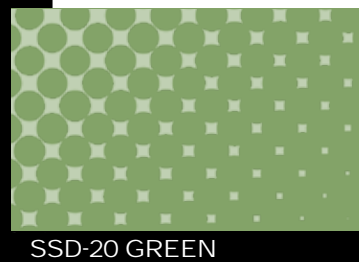
SSD-02 PURPLE



SSD-05 BLUE



SSD-10 BROWN



SSD-20 GREEN



SSD-25 YELLOW



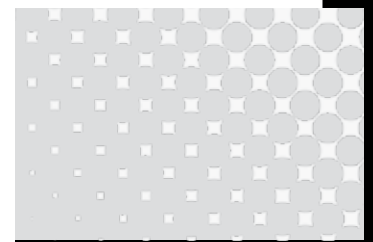
SSD-30 RED



SSD-40 GRAY



SSD-50 MUSTARD



SSD-55 WHITE



SSD-65 ORANGE

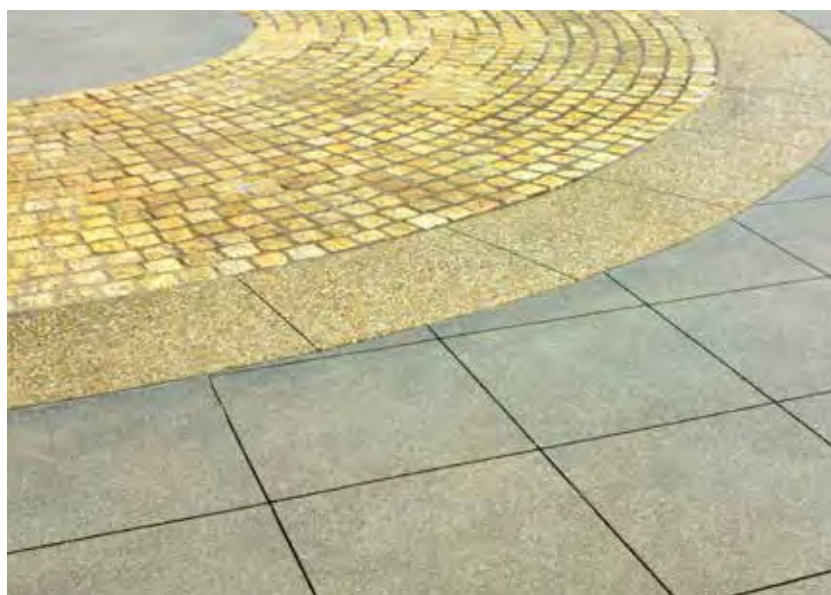
# SURFACE DEACTIVATOR

## 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 tight rain
- Solvent-free, water-soluble
- VOC compliant

Available in 1-gallon bottles & 5-gallon pails

Product # - Color Code	Exposure Depth
SSD-01 Beige	Extra Light Etch (0.1 mm)
SSD-02 Purple	Acid Etch (0.2 mm)
SSD-05 Blue	Light Sandblast (1/64") (0.5 mm)
SSD-10 Brown	Medium Sandblast (1/32") (1 mm)
SSD-20 Green	Heavy Sandblast (1/16") (2 mm)
SSD-25 Yellow	Exposure (3/32") (2.5 mm)
SSD-30 Red	Exposure (7/64") (3 mm)
SSD-40 Gray	Exposure (5/32") (4 mm)
SSD-50 Mustard	Exposure (3/16") (5 mm)
SSD-55 White	Exposure (13/64") (5.5 mm)
SSD-65 Orange	Exposure (1/4") (6.5 mm)



Images courtesy Trademark Concrete Systems, Inc.

# CLASSIC.

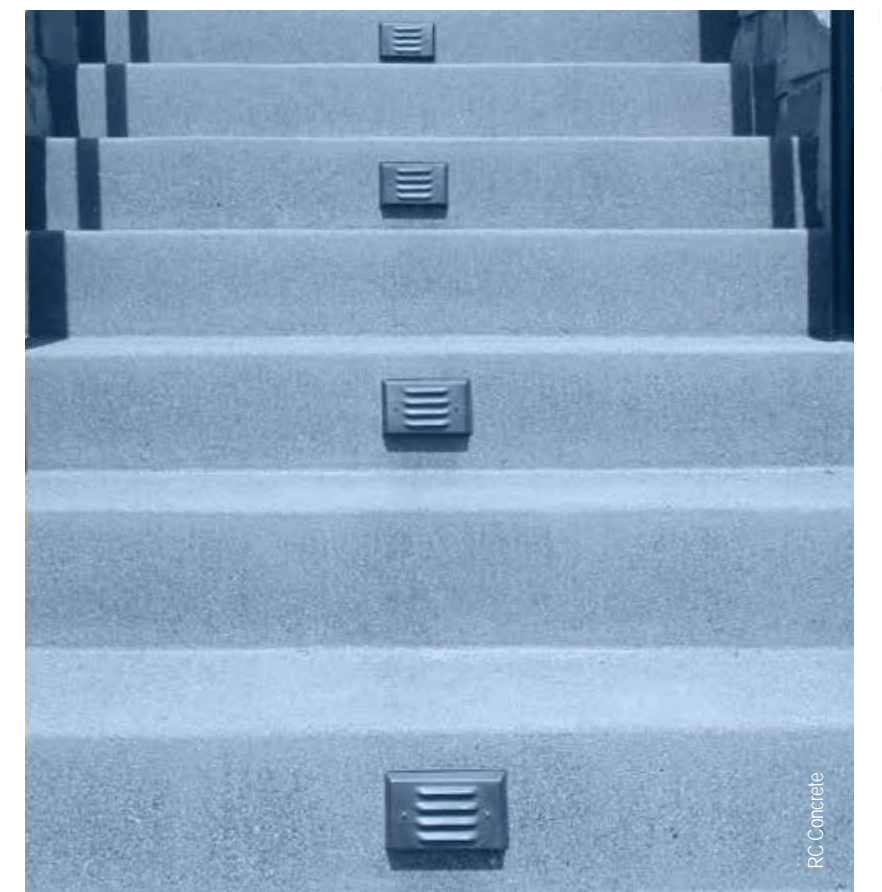


SURFACE  
DEACTIVATOR

# CONSISTENT.



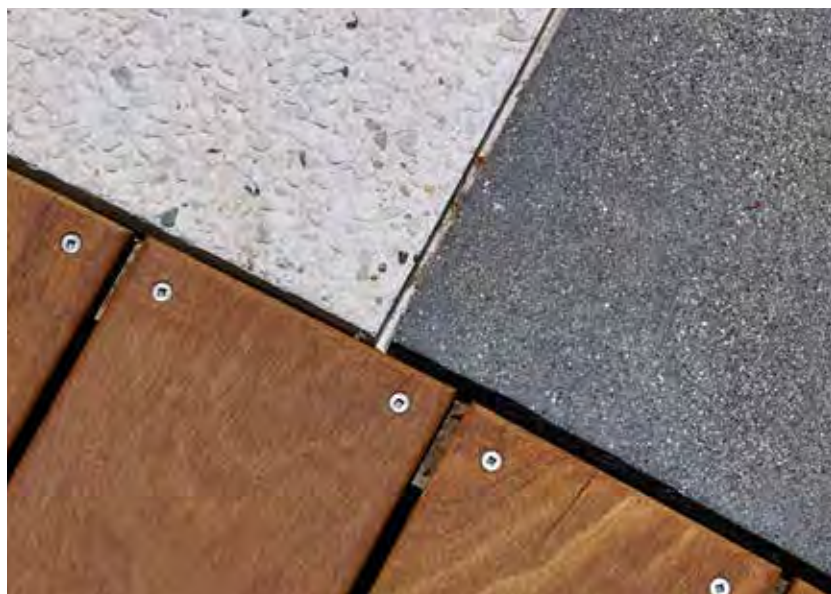
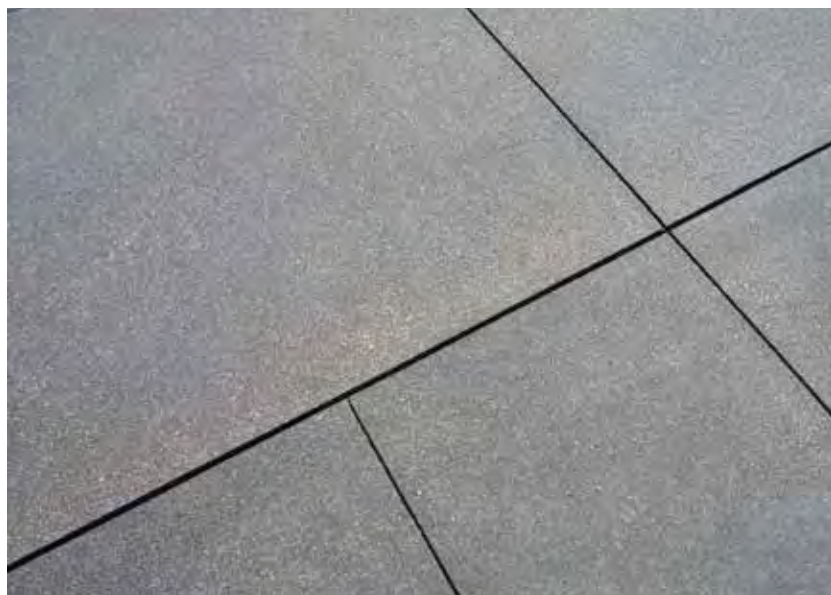
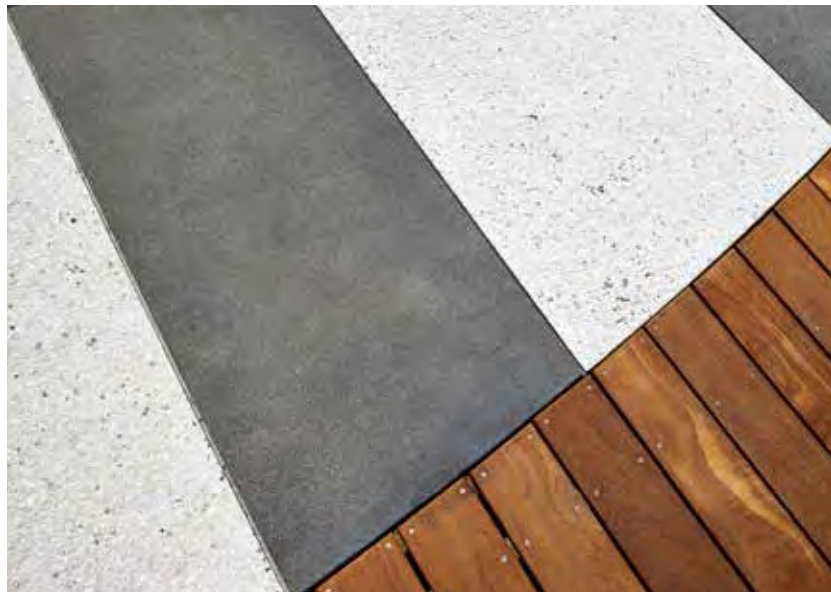
RC Concrete



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## SURFACE DEACTIVATOR



Images courtesy Trademark Concrete Systems, Inc.

# MODERN.



## SURFACE DEACTIVATOR



# CLEAN.



Images courtesy Trademark Concrete Systems, Inc.

## SURFACE DEACTIVATOR

# SURFACE DEACTIVATOR

SSD-TIS-2019.07



ENGINEERED CHEMISTRY FOR EXPOSED CONCRETE SURFACES

\*Subject to change. Contact Solomon Colors/Brickform for most up-to-date information P1

## 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

Typically 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 colored and number codes
- Colored for visual coverage control (Non-staining)
- High performance coverage rates
- Extended exposure times
- Performs 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 sprayer 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

Product #	Color Code	Exposure Depth
SSD-01	Beige	Light Acid Etch (0.1mm)
SSD-02	Purple	Acid Etch (0.2mm)
SSD-05	Blue	Light Sandblast (1/64") (0.5mm)
SSD-10	Brown	Medium Sandblast (1/32") (1mm)
SSD-20	Green	Heavy Sandblast (1/16") (2mm)
SSD-25	Yellow	Exposure (3/32") (2.5mm)
SSD-30	Red	Exposure (7/64") (3mm)
SSD-40	Gray	Exposure (5/32") (4mm)
SSD-50	Mustard	Exposure (3/16") (5mm)
SSD-55	White	Exposure (13/64") (5.5mm)
SSD-65	Orange	Exposure (3/4") (6.5mm)

## 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 012: Project Testing.

- 1: Mix thoroughly in the original container
- 2: Pour into sprayer or place suction hose into the container
- 3: Optimize sprayer pressure
- 4: Evenly apply over the entire surface

## 010: REMOVAL GUIDELINES

Surface Deactivator delays 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.

CORPORATE HEADQUARTERS: 4050 Color Plant Road, Springfield IL 62702 | 800.624.0261  
WEST COAST FACILITY: 1371 Laurel Avenue, Rialto CA 92376 | 800.624.0261



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SSD-TIS-2019.07



ENGINEERED CHEMISTRY FOR EXPOSED CONCRETE SURFACES

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## 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 jobsite sample who will be present during the project. The test section should be large enough to properly represent the overall project.

## 013: PHYSICAL PROPERTIES

Physical State ..... (Liquid)  
Color ..... (Individually Color Coded)  
VOC Content.....(0 g/l - VOC free)  
Material pH .....(apx 2-4)  
Freeze point .....(32F - 0°C)  
Shelf Life .....(24 Months)

## 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, 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 Surface Deactivator proven defective. The end user shall be responsible for determining product's suitability and assumes all risks and liability.

## 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./m<sup>3</sup>)

**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 covering. The unique characteristics of Surface Deactivator create a polymeric-film that acts as a water retention barrier until washed off and a cure/seal 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

Aggregate to sand ratio 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 in the mix, whereas larger exposed aggregate finishes require less sand and more aggregate. Work with your local ready-mix producer to qualify the required concrete mix design.

**PRODUCT COMPARISON CHART:** The following are correlations for TOP-CAST® Surface Retarder to Solomon Surface Deactivator  
TOP-CAST® is a registered trademark of GCP Applied Technologies. All rights reserved.

TOP-CAST Code/Colors Ref	Surface Deactivator Code/Color Ref	Exposure Depth *Approx.
01 White	SSD-01 Beige	Light Acid Etch (0.1mm)
03 Violet	SSD-02 Purple	Acid Etch (0.2mm)
05 Light Blue	SSD-05 Blue	Light Sandblast (1/64") (0.5mm)
15 Yellow	SSD-10 Brown	Medium Sandblast (1/32") (1mm)
25 Beige	SSD-20 Green	Heavy Sandblast (1/16") (2mm)
50 Canary Green	SSD-25 Yellow	Exposure (3/32") (2.5mm)
75 Blue	SSD-30 Red	Exposure (7/64") (3mm)
100 Gray	SSD-40 Gray	Exposure (5/32") (4mm)
125 Pink	SSD-50 Mustard	Exposure (3/16") (5mm)
150 Green	SSD-55 White	Exposure (13/64") (5.5mm)
200 Salmon	SSD-65 Orange	Exposure (3/4") (6.5mm)

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