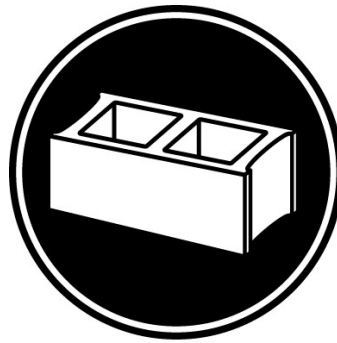




# *Pallet Tag Program Laboratory Report*

## Basalite Concrete Products Dixon, CA



*Project No. 1808-08 PTP*

***Prepared For:***



***Prepared By:***

*J. Lucas Comadoll*

J. Lucas Comadoll  
QC/Project Testing Technician  
AMT Laboratories

August 2018



# LABORATORY REPORT

AMT Laboratories • 3741 Greenway Circle • Lawrence, Kansas 66046 • (888) 376-3600

**FOR:** Lance Vasquez, Basalite Concrete Products  
**cc:** Jake Boyer, PROSOCO, Inc.  
Tim Sinnott  
Dane Olson, PROSOCO, Inc.  
Al Morris, PROSOCO, Inc.

**SUBJECT:** Basalite Concrete Products  
Dixon, CA  
Pallet Tag Evaluation

**DATE:** August 16, 2018  
**PROJECT:** 1808-08 PTP

**SAMPLES SUBMITTED:** 10 CMUs (2 Smooth, 2 Split Face, 2 Ribbed, 2 WR Smooth, 2 WR Ground Face)

Block	Name	Color	Integral Water Repellent	Size
(3) Smooth CMU	"225 Smooth"	Grey	No	15.5" x 7.5" x 1.5"
(3) Split Face CMU	"225 Split Face"	Grey	No	
(3) Ribbed CMU	"225 Ribbed"	Grey	No	
(3) Smooth CMU	"225 WR Smooth"	Grey	Yes	
(3) Ground Face CMU	"225 WR Ground"	Grey	Yes	
(3) Smooth CMU	"345 Smooth"	Tan	No	
(3) Split Face CMU	"345 Split Face"	Tan	No	
(3) Ribbed CMU	"345 Ribbed"	Tan	No	
(3) Smooth CMU	"345 WR Smooth"	Tan	Yes	
(3) Ground Face CMU	"345 WR Ground"	Tan	Yes	

**SUBMITTED BY:** Lance Vasquez  
Basalite Concrete Products  
605 Industrial Way  
Dixon, CA 95620

**PURPOSE OF TEST:**

- To determine the most appropriate PROSOCO, Inc. new construction cleaner for the submitted CMUs.
- To determine the most appropriate PROSOCO, Inc. water repellent for the submitted CMUs.
- To determine the effectiveness of appropriate PROSOCO, Inc. products in preventing the penetration of, and simplifying the removal of, graffiti staining on the submitted samples.

**PRODUCTS EVALUATED:**

<b>New Construction Cleaning</b>	<b>Dilution:</b>
Sure Klean® Custom Masonry Cleaner	1:4; 1:6
Enviro Klean® Safety Klean	1:2, 1:3
Sure Klean® Light Duty Concrete Cleaner	1:2; 1:3

<b>Water Repellency</b>	<b>Dilution:</b>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15	Concentrate
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	Concentrate
T2537 Saltguard® VOC	Concentrate
Sure Klean® Weather Seal Siloxane WB Concentrate	1:9

<b>Graffiti Resistance</b>	<b>Dilution:</b>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15	Concentrate
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	Concentrate

<b>Graffiti Removal</b>	<b>Dilution:</b>
Defacer Eraser® Graffiti Remover	Concentrate
Enviro Klean® SafStrip® 8	Concentrate

## TEST METHODS: New Construction Cleaning

Sure Klean® Custom Masonry Cleaner, Enviro Klean® Safety Klean, and Sure Klean® Light Duty Concrete Cleaner were evaluated to determine the optimal concentration of cleaner which leaves the external surface looking most like the natural through-body color of the CMU.

Color uniformity was evaluated by comparing aggregate exposure and surface pigment alteration/removal of each cleaned surface compared to the natural through-body color of the CMU.

Aggregate Exposure is the visual examination comparing aggregate exposure of the interior, through-body section of the CMU to surfaces cleaned with selected product(s) at given dilutions.

Surface Pigment Alteration/Removal is the visual examination comparing the pigmentation of the interior, through-body section of the CMU to surfaces cleaned with selected product(s) at given dilutions.

The following is the scale used for reporting results of both categories:

- 0 – **No change** compared to through-body
- 1 – **Slight change** compared to through-body
- 2 – **Moderate change** compared to through-body
- 3 – **Significant change** compared to through-body

### NOTE: When cleaning integrally colored CMUs.

Integrally colored concrete masonry units (CMUs) frequently have high amounts of pigments concentrated on the surface of the cured concrete unit. Variation of surface pigment concentrations from one CMU to the next creates a blotchy appearance in the completed wall. Allowed to remain on the surface of the CMU, the weakly bound pigment will weather and streak, further detracting from the appearance of the completed CMU wall.

In addition to removing excess mortar and construction related soiling, the goal of any cleaning operation undertaken on an integrally colored CMU should include removal of unnaturally high concentrations of surface pigment. By revealing the natural through-body color on the integrally colored unit, the overall color uniformity and weathering resistance of the completed CMU wall is improved.

### Cleaning Procedure:

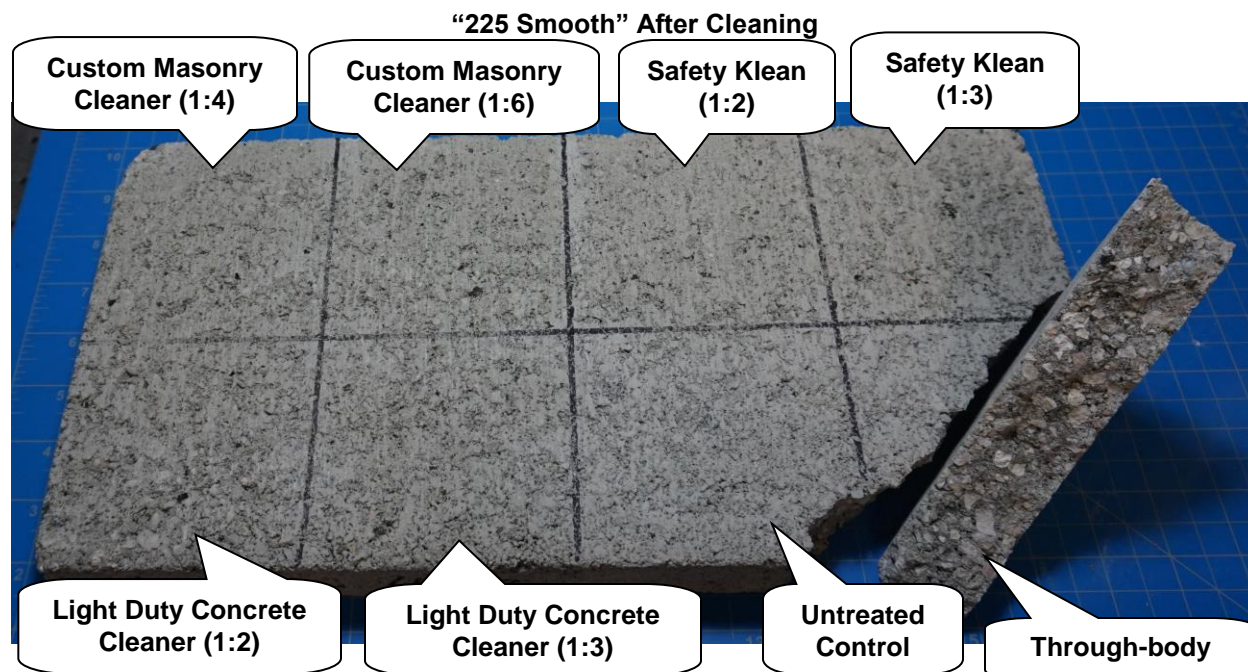
1. Pre-wet the surface and apply diluted cleaning solution according to PROSOCO, Inc. Product Guide instructions.
2. Allow for an appropriate dwell time:
  - Custom Masonry Cleaner .....5 minutes
  - Safety Klean.....5 minutes
  - Light Duty Concrete Cleaner.....5 minutes
3. Reapply cleaning solution; do not let cleaner dry into masonry.
4. Rinse thoroughly with plenty of fresh water.\*
5. Allow the sample to dry for at least 18 hours and visually examine.
6. Break the sample and compare the through-body surfaces to the cleaned surfaces for the best match.

**\*Rinsing Equipment** – Masonry washing equipment generating approximately 700-800 psi with a water flow rate of 8 gallons per minute delivered through a 45 degree fan spray tip was used for rinsing.

## TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning / Color Uniformity

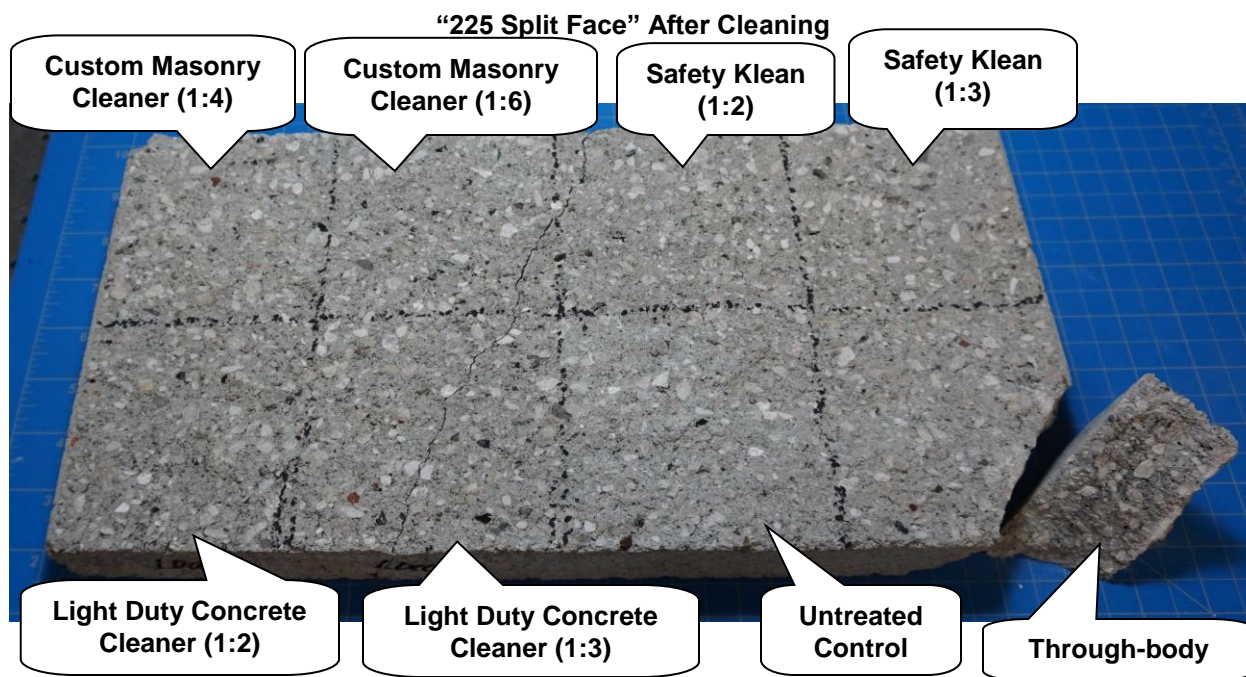
Scale used for reporting results of both categories
0 – <b>No change</b> compared to through-body
1 – <b>Slight change</b> compared to through-body
2 – <b>Moderate change</b> compared to through-body
3 – <b>Significant change</b> compared to through-body

<b>Substrate:</b> Smooth CMU	<b>Name:</b> "225 Smooth"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:4	2	1
Custom Masonry Cleaner	1:6	2	1
Safety Klean	1:2	1	1
Safety Klean	1:3	1	1
Light Duty Concrete Cleaner	1:2	1	1
Light Duty Concrete Cleaner	1:3	1	1



**TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning / Color Uniformity (cont.)**

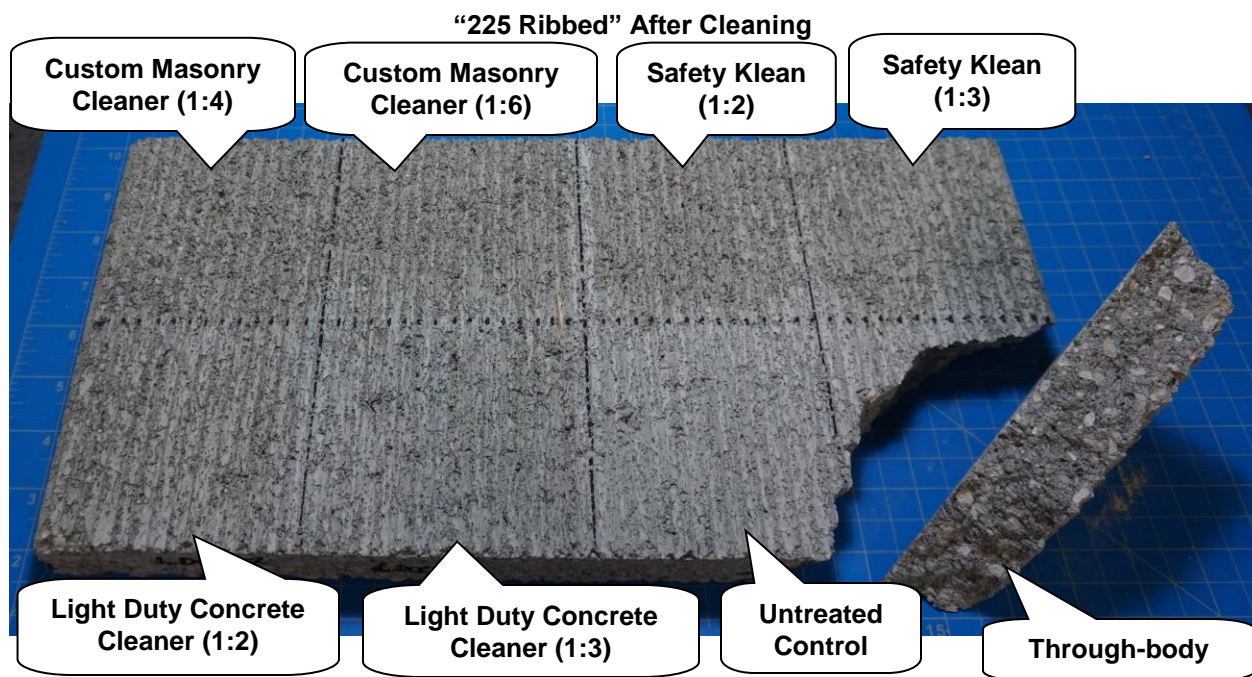
<b>Substrate:</b> Split Face CMU		<b>Name:</b> "225 Split Face"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:4	2	1
Custom Masonry Cleaner	1:6	2	1
Safety Klean	1:2	1	1
Safety Klean	1:3	1	1
Light Duty Concrete Cleaner	1:2	2	1
Light Duty Concrete Cleaner	1:3	2	1





**TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning / Color Uniformity (cont.)**

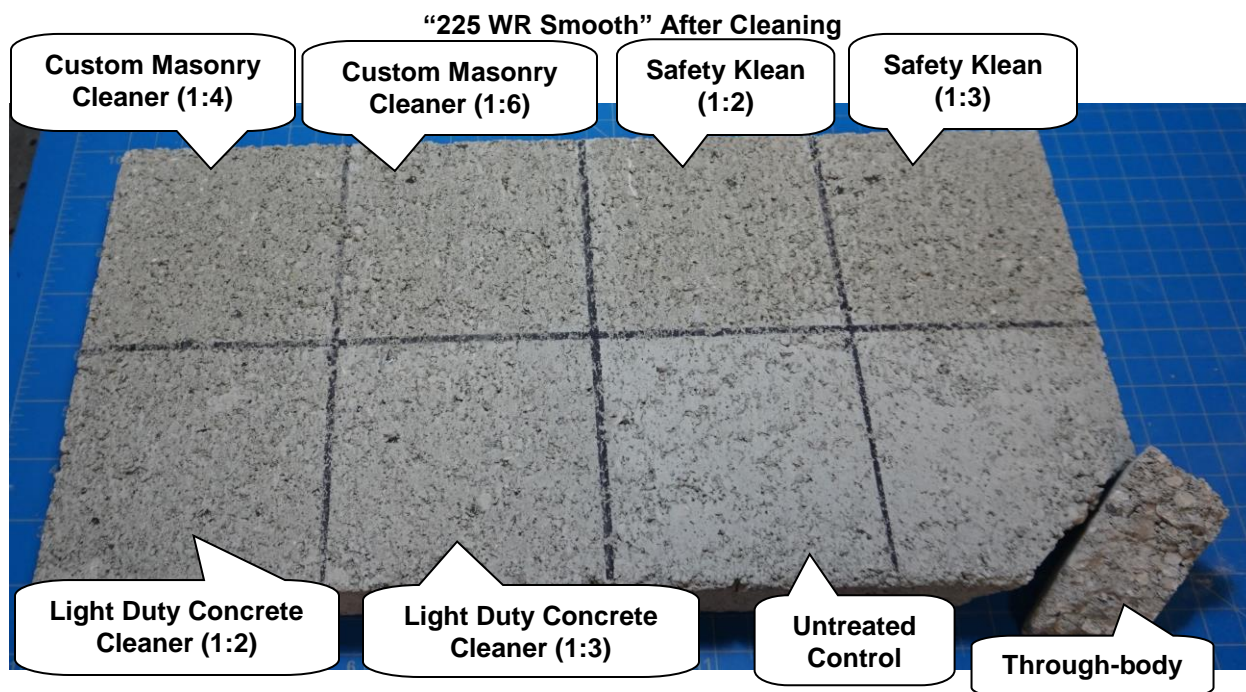
<b>Substrate:</b> Ribbed CMU		<b>Name:</b> "225 Ribbed"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:4	2	2
Custom Masonry Cleaner	1:6	2	2
Safety Klean	1:2	1	2
Safety Klean	1:3	1	2
Light Duty Concrete Cleaner	1:2	1	1
Light Duty Concrete Cleaner	1:3	1	1





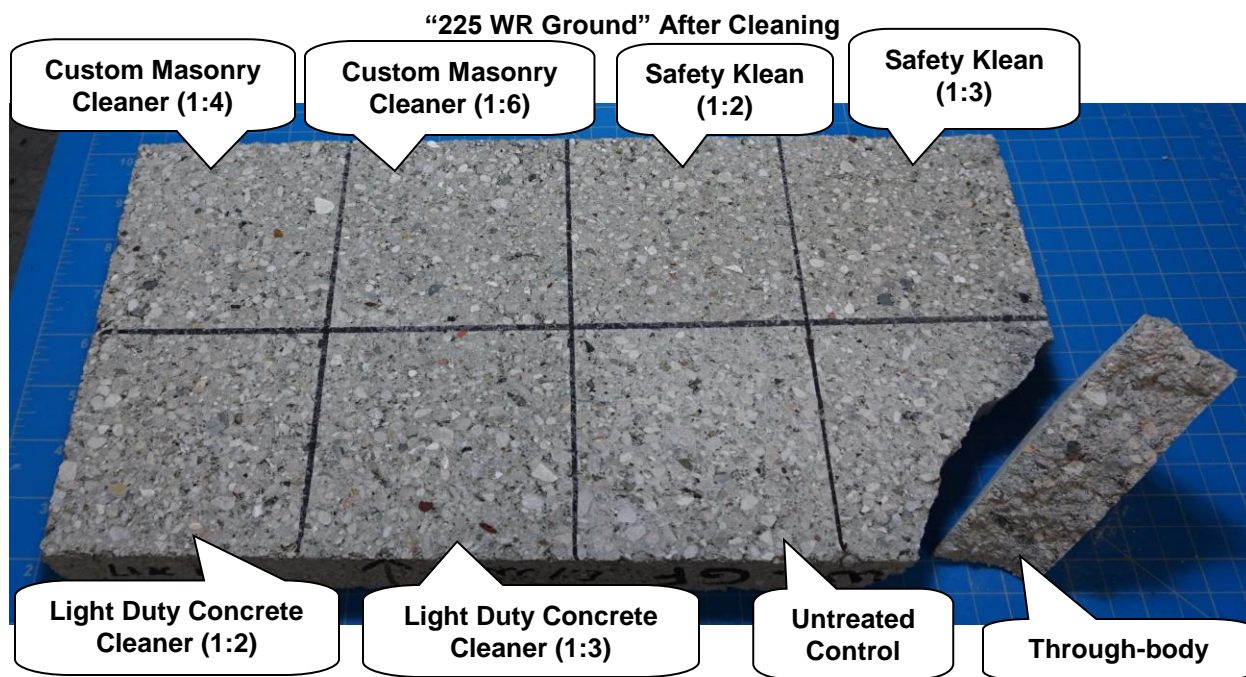
**TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning / Color Uniformity (cont.)**

<b>Substrate:</b> Smooth CMU		<b>Name:</b> "225 WR Smooth"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:4	2	2
Custom Masonry Cleaner	1:6	2	2
Safety Klean	1:2	1	2
Safety Klean	1:3	1	2
Light Duty Concrete Cleaner	1:2	1	1
Light Duty Concrete Cleaner	1:3	1	1



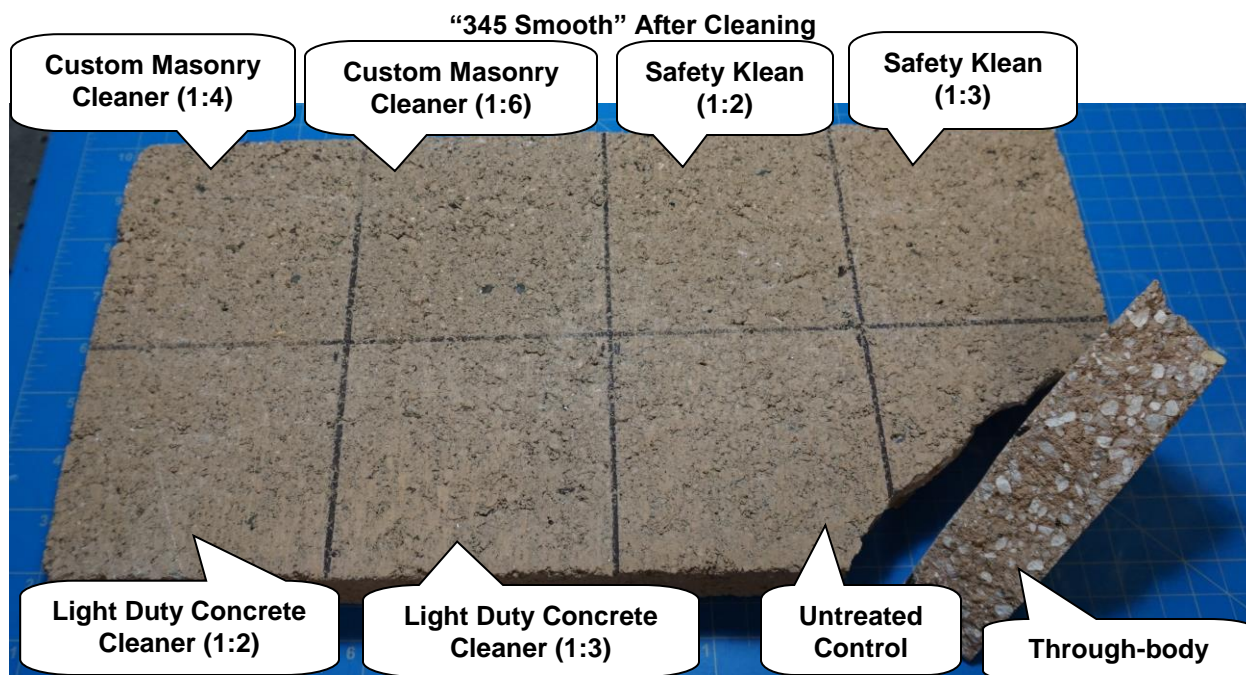
**TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning / Color Uniformity (cont.)**

<b>Substrate:</b> Ground Face CMU		<b>Name:</b> "225 WR Ground"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:4	1	1
Custom Masonry Cleaner	1:6	1	1
Safety Klean	1:2	1	1
Safety Klean	1:3	1	1
Light Duty Concrete Cleaner	1:2	1	1
Light Duty Concrete Cleaner	1:3	1	1



**TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning / Color Uniformity (cont.)**

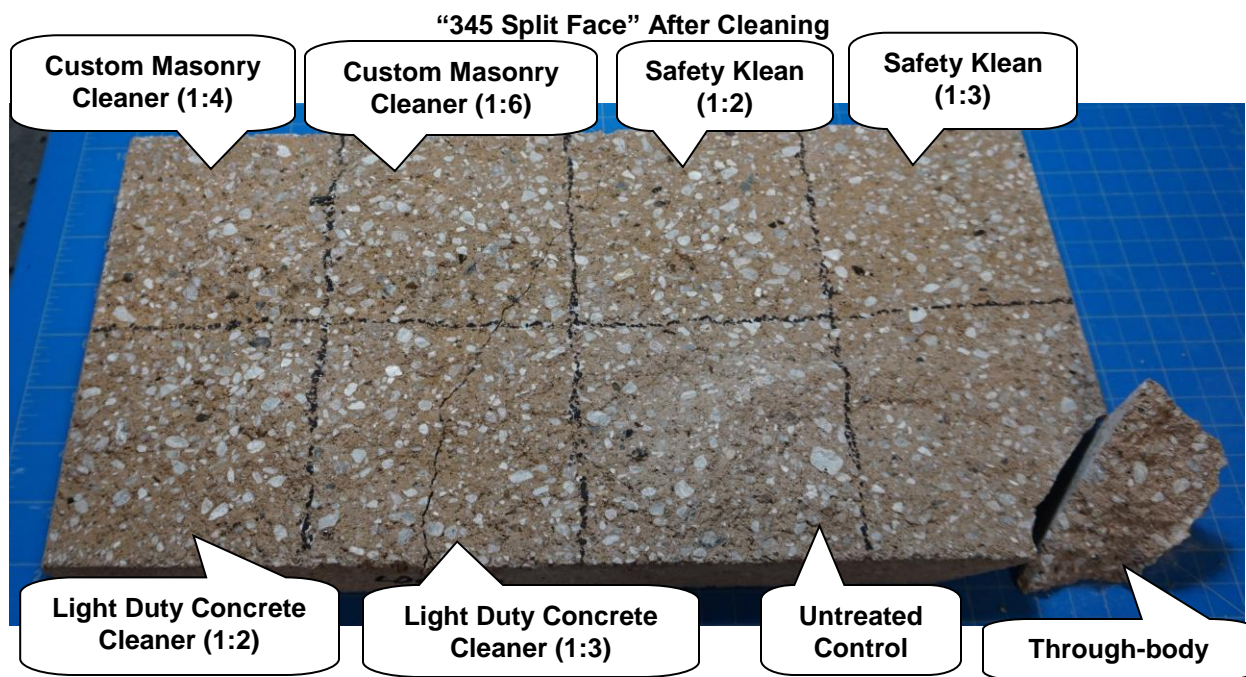
<b>Substrate:</b> Smooth CMU		<b>Name:</b> "345 Smooth"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:4	2	2
Custom Masonry Cleaner	1:6	2	2
Safety Klean	1:2	1	1
Safety Klean	1:3	1	1
Light Duty Concrete Cleaner	1:2	0	1
Light Duty Concrete Cleaner	1:3	0	1





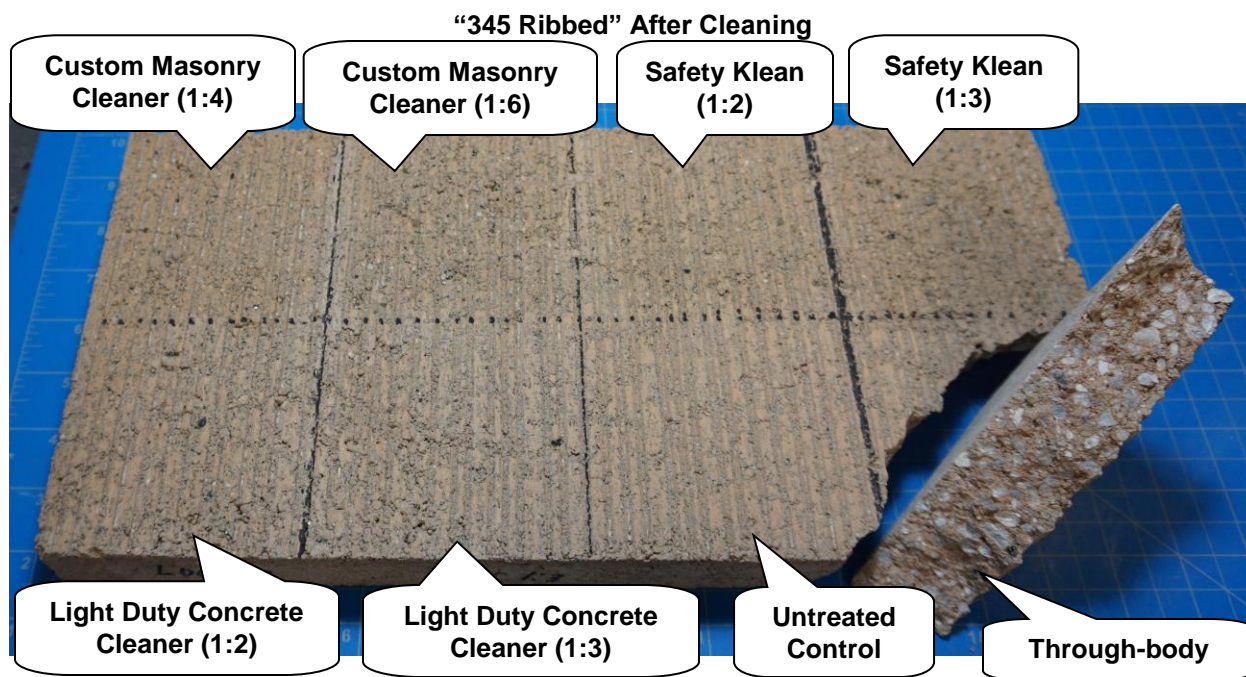
**TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning / Color Uniformity (cont.)**

<b>Substrate:</b> Split Face CMU		<b>Name:</b> "345 Split Face"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:4	2	2
Custom Masonry Cleaner	1:6	2	2
Safety Klean	1:2	1	1
Safety Klean	1:3	1	1
Light Duty Concrete Cleaner	1:2	2	2
Light Duty Concrete Cleaner	1:3	2	2



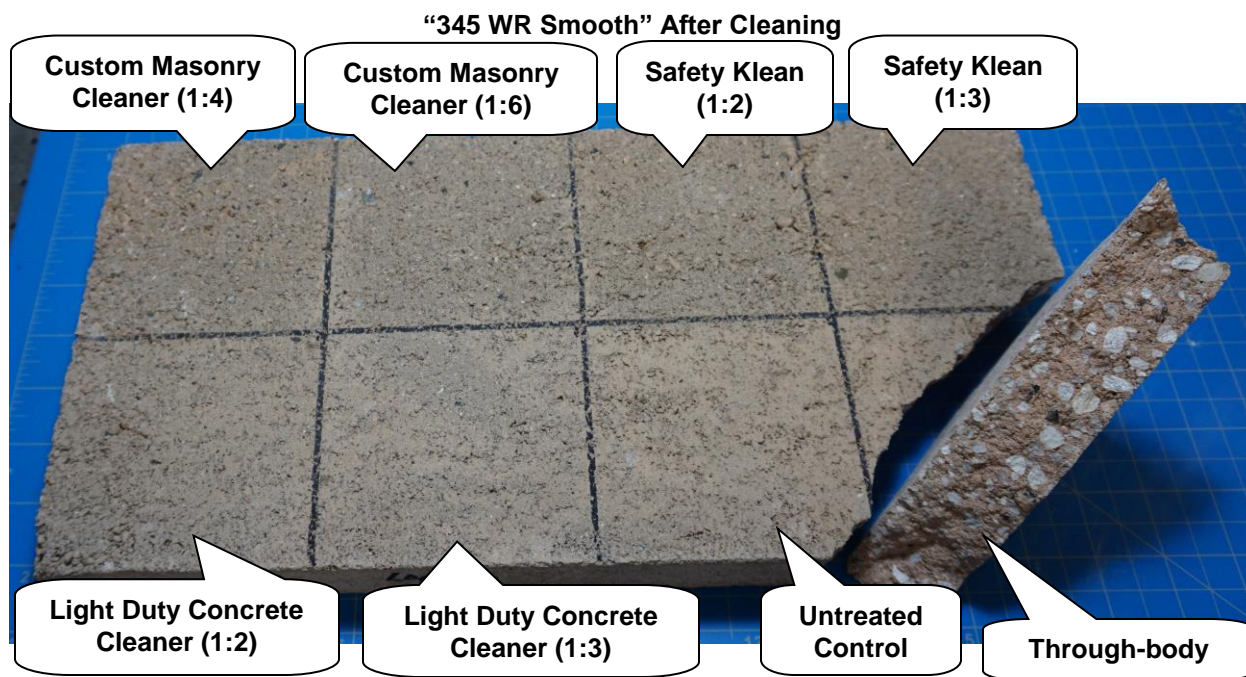
**TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning / Color Uniformity (cont.)**

<b>Substrate:</b> Ribbed CMU		<b>Name:</b> "345 Ribbed"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:4	1	1
Custom Masonry Cleaner	1:6	1	1
Safety Klean	1:2	1	1
Safety Klean	1:3	1	1
Light Duty Concrete Cleaner	1:2	1	0
Light Duty Concrete Cleaner	1:3	1	0



**TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning / Color Uniformity (cont.)**

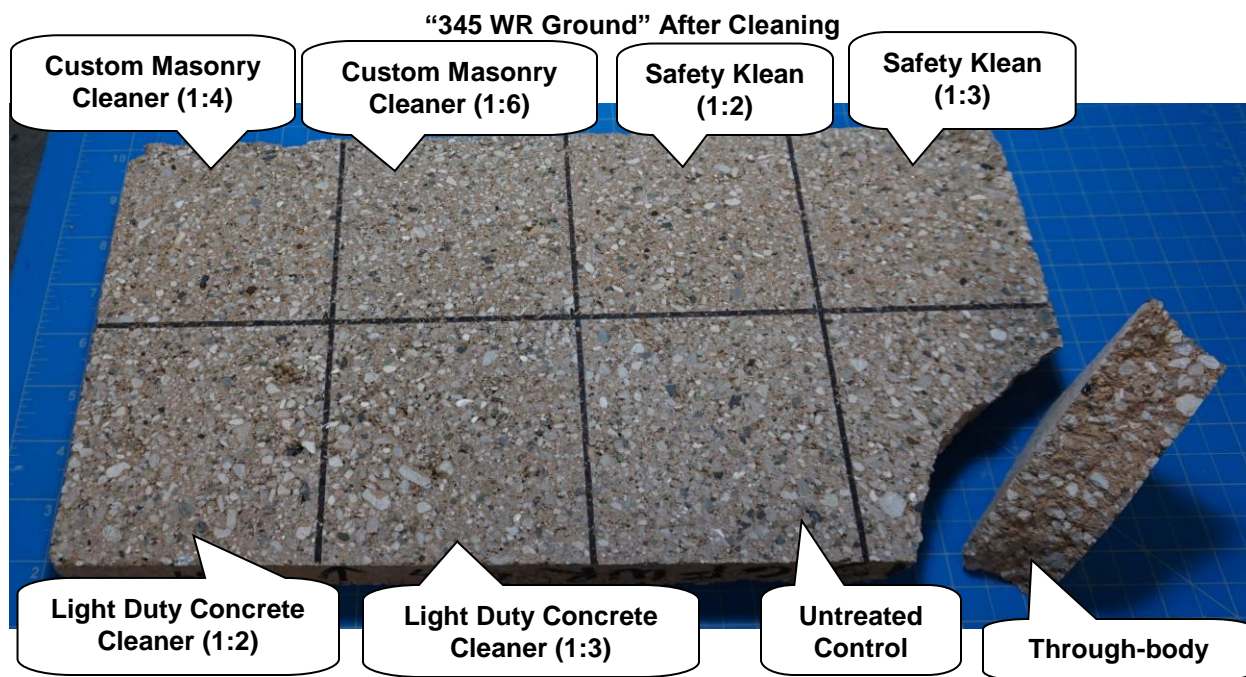
<b>Substrate:</b> Smooth CMU		<b>Name:</b> "345 WR Smooth"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:4	2	2
Custom Masonry Cleaner	1:6	1	1
Safety Klean	1:2	1	1
Safety Klean	1:3	1	1
Light Duty Concrete Cleaner	1:2	0	1
Light Duty Concrete Cleaner	1:3	0	1





**TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning / Color Uniformity (cont.)**

<b>Substrate:</b> Ground Face CMU		<b>Name:</b> "345 WR Ground"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:4	1	1
Custom Masonry Cleaner	1:6	1	1
Safety Klean	1:2	1	1
Safety Klean	1:3	1	1
Light Duty Concrete Cleaner	1:2	1	1
Light Duty Concrete Cleaner	1:3	1	1



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## **CONCLUSIONS – New Construction Cleaning**

In most of the cleaning tests conducted, Sure Klean® Custom Masonry Cleaner diluted with both four and six parts water removed a moderate amount of surface pigment, exposing a moderate amount of aggregate. Enviro Klean® Safety Klean and Sure Klean® Light Duty Concrete Cleaner diluted with both two and three parts water removed only a slight amount of surface pigment, exposing a slight amount of aggregate.

Enviro Klean® Safety Klean and Sure Klean® Light Duty Concrete Cleaner provided the best match to the through-body color of the CMU.

When choosing the most appropriate product for the desired result, use Sure Klean® Light Duty Concrete Cleaner when minimal aggregate exposure is desired and Sure Klean® Custom Masonry Cleaner when additional aggregate exposure is desired. Use Enviro Klean® Safety Klean as an effective, safe alternative to acidic cleaning compounds.

Use higher concentrations and surface agitation to maximize aggregate exposure. Use low concentration and surface agitation to minimize aggregate exposure.

### **NOTE: When cleaning integrally colored CMUs.**

**Integrally colored concrete masonry units (CMUs) frequently have high amounts of pigments concentrated on the surface of the cured concrete unit. Variation of surface pigment concentrations from one CMU to the next creates a blotchy appearance in the completed wall. Allowed to remain on the surface of the CMU, the weakly bound pigment will weather and streak, further detracting from the appearance of the completed CMU wall.**

**In addition to removing excess mortar and construction related soiling, the goal of any cleaning operation undertaken on an integrally colored CMU should include removal of unnaturally high concentrations of surface pigment. By revealing the natural through-body color on the integrally colored unit, the overall color uniformity and weathering resistance of the completed CMU wall is improved.**

## RECOMMENDATIONS: New Construction Cleaning

Recommendations for cleaning for each type of CMU submitted by Basalite Concrete Products, Dixon, CA are provided in the chart below. Recommendations are based on the cleaner and dilution that provided the best match to the through-body.

Sample	New Construction Cleaning
"225 Smooth" CMU	Enviro Klean® Safety Klean (1:2) or (1:3) OR Sure Klean® Light Duty Concrete Cleaner (1:2) or (1:3)
"225 Split Face" CMU	Enviro Klean® Safety Klean (1:2) or (1:3)
"225 Ribbed" CMU	Sure Klean® Light Duty Concrete Cleaner (1:2) or (1:3)
"225 WR Smooth" CMU	
"225 WR Ground" CMU	Sure Klean® Custom Masonry Cleaner (1:4) or (1:6) OR Enviro Klean® Safety Klean (1:2) or (1:3) OR Sure Klean® Light Duty Concrete Cleaner (1:2) or (1:3)
"345 Smooth" CMU	Sure Klean® Light Duty Concrete Cleaner (1:2) or (1:3)
"345 Split Face" CMU	Enviro Klean® Safety Klean (1:2) or (1:3)
"345 Ribbed" CMU	Sure Klean® Light Duty Concrete Cleaner (1:2) or (1:3)
"345 WR Smooth" CMU	
"345 WR Ground" CMU	Sure Klean® Custom Masonry Cleaner (1:4) or (1:6) OR Enviro Klean® Safety Klean (1:2) or (1:3) OR Sure Klean® Light Duty Concrete Cleaner (1:2) or (1:3)

The most appropriate cleaner and dilution should be determined on the specific job-site, and will be dependent primarily on the nature and severity of soiling present at that location.

Apply all products in accordance with the manufacturer's recommendation provided on container labels and product data sheets. On-site testing should be conducted to determine the most appropriate cleaning product and procedures for a particular project. See product literature for additional application and product information.

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### **SAMPLE PREPARATION: Treatment Application**

Prior to treatment application, the submitted Smooth CMUs and Ground Face CMUs were cleaned with Light Duty Concrete Cleaner at a dilution of 1:2 in accordance with the current PROSOCO, Inc. Product Data Sheet instructions. The submitted Split Face CMUs and Ribbed CMUs were cleaned with Custom Masonry Cleaner at a dilution of 1:4 in accordance with the current PROSOCO, Inc. Product Data Sheet instructions. After the samples had at least 24 hours of drying time, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II, T2537 Saltguard® VOC, and Sure Klean® Weather Seal Siloxane WB Concentrate were applied in a brushing application in accordance with the current PROSOCO, Inc. Product Data Sheet instructions. The treatments were allowed to cure for at least 72 hours prior to testing.

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### **TEST METHODS: Protective Water Repellents**

#### **Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes**

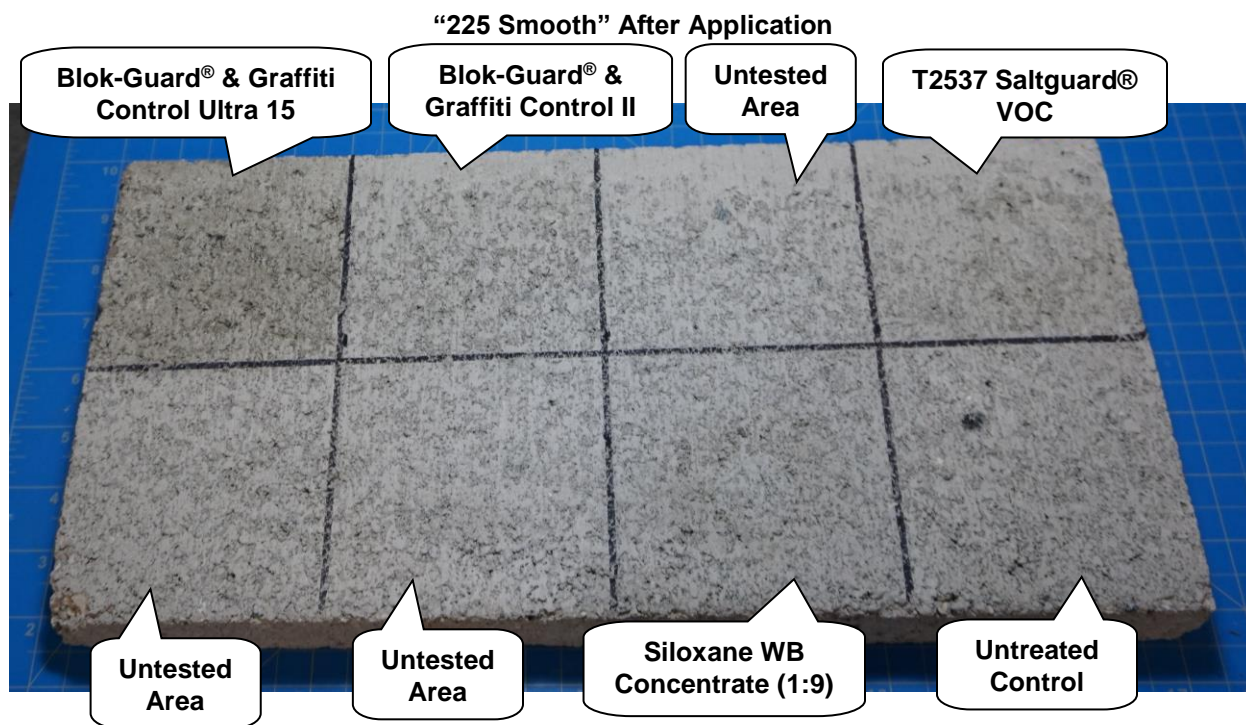
The water absorption tube test simulating wind driven rain conditions was performed. This test simulates 60 mile per hour wind driven rain conditions for a period of 20 minutes.

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## TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents

### Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes

"225 Smooth"	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	60 mph
T2537 Saltguard® VOC	60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	60 mph



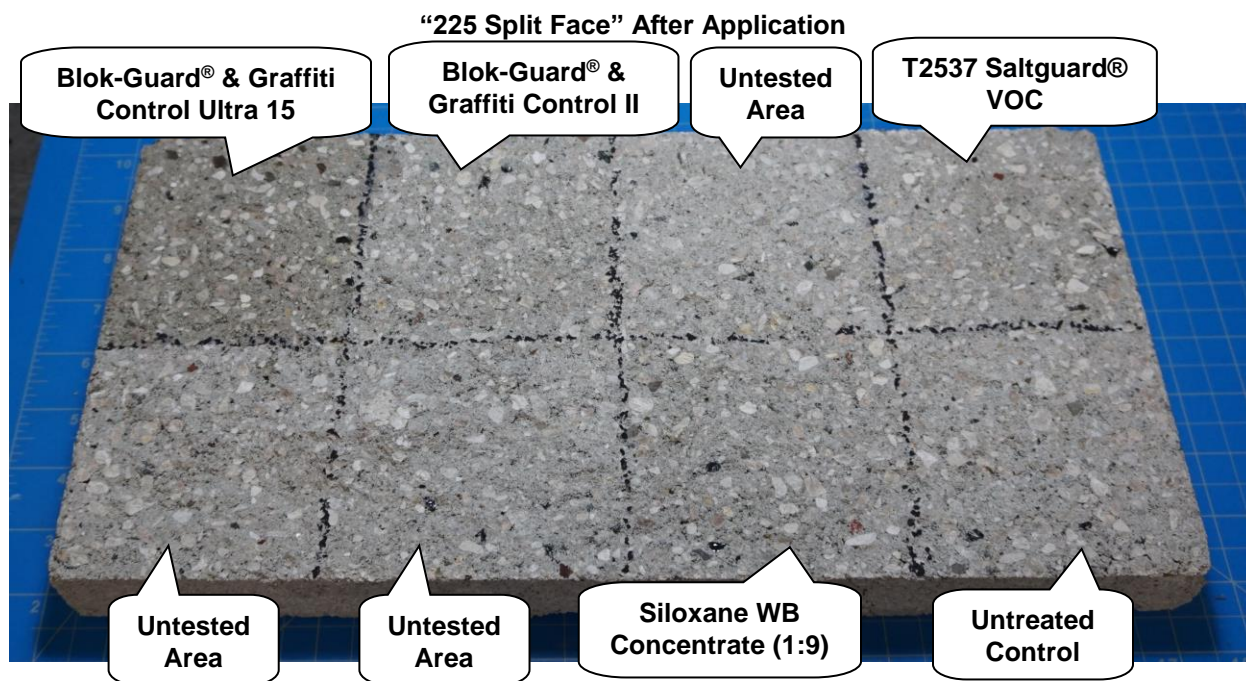
NOTE: Circular discolorations visible on the submitted CMUs are due to the putty used during RILEM tube testing.



## TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

### Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes

"225 Split Face"	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	60 mph
T2537 Saltguard® VOC	60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	60 mph

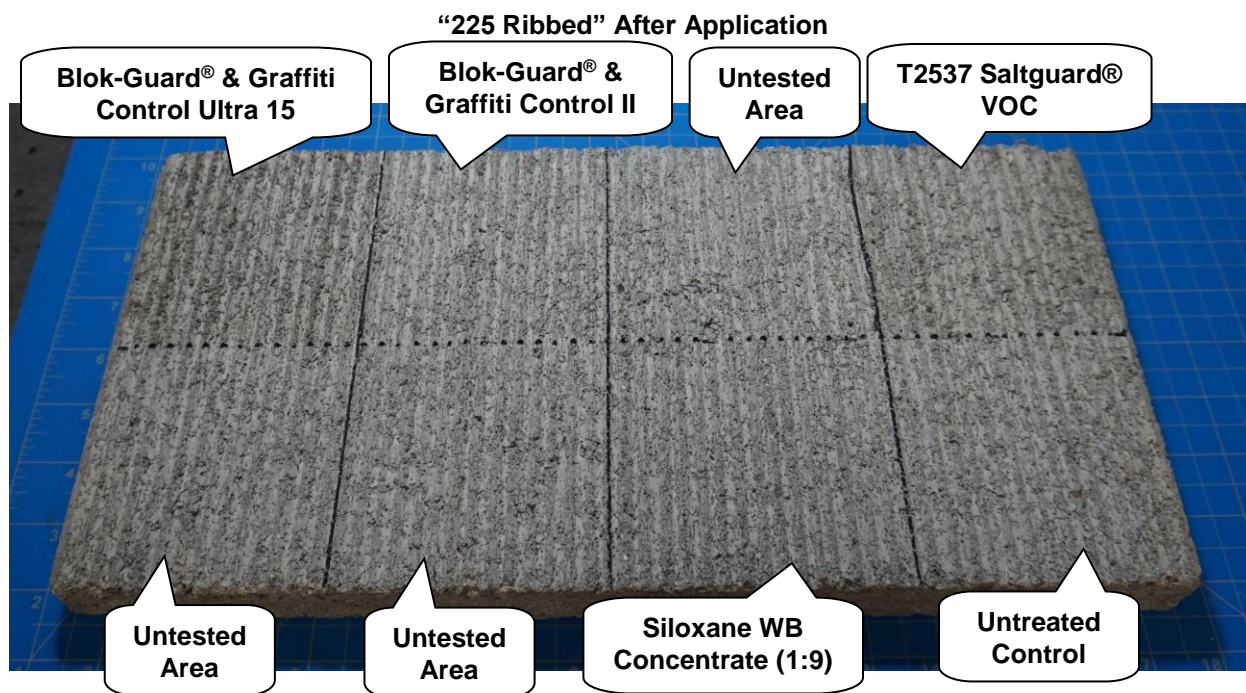




## TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

### Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes

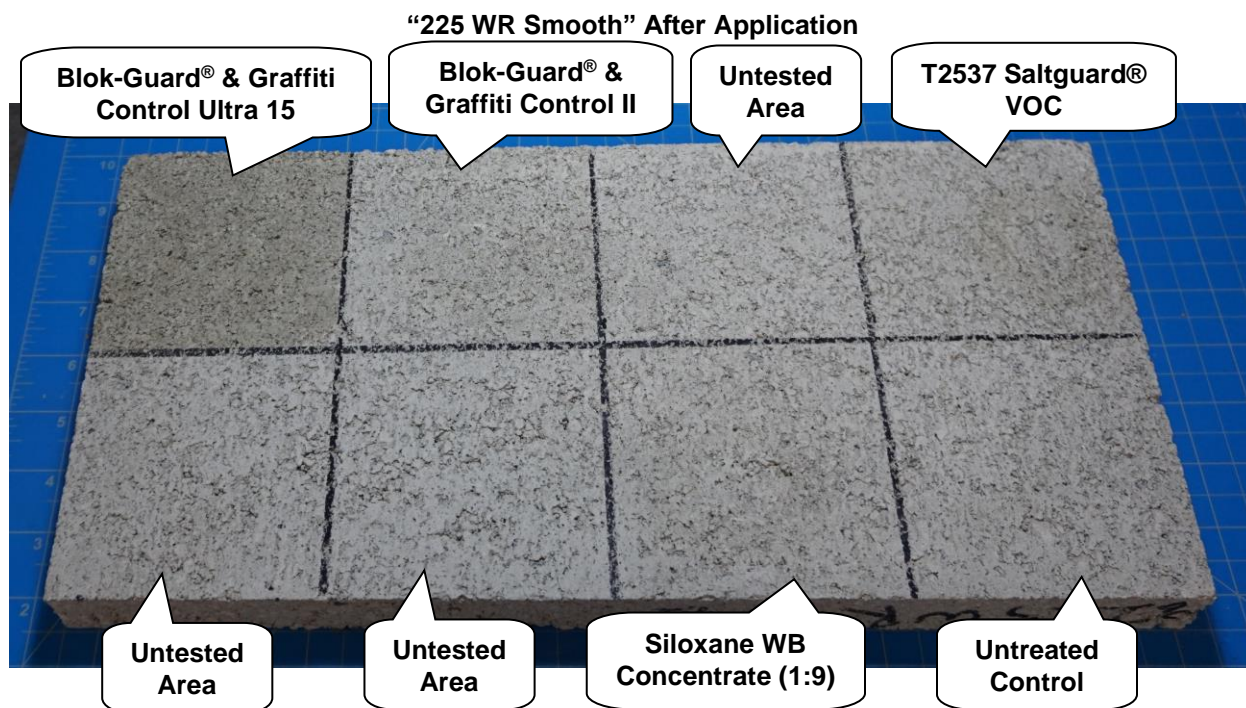
"225 Ribbed"	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	59 mph
T2537 Saltguard® VOC	60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	47 mph



## TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

### Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes

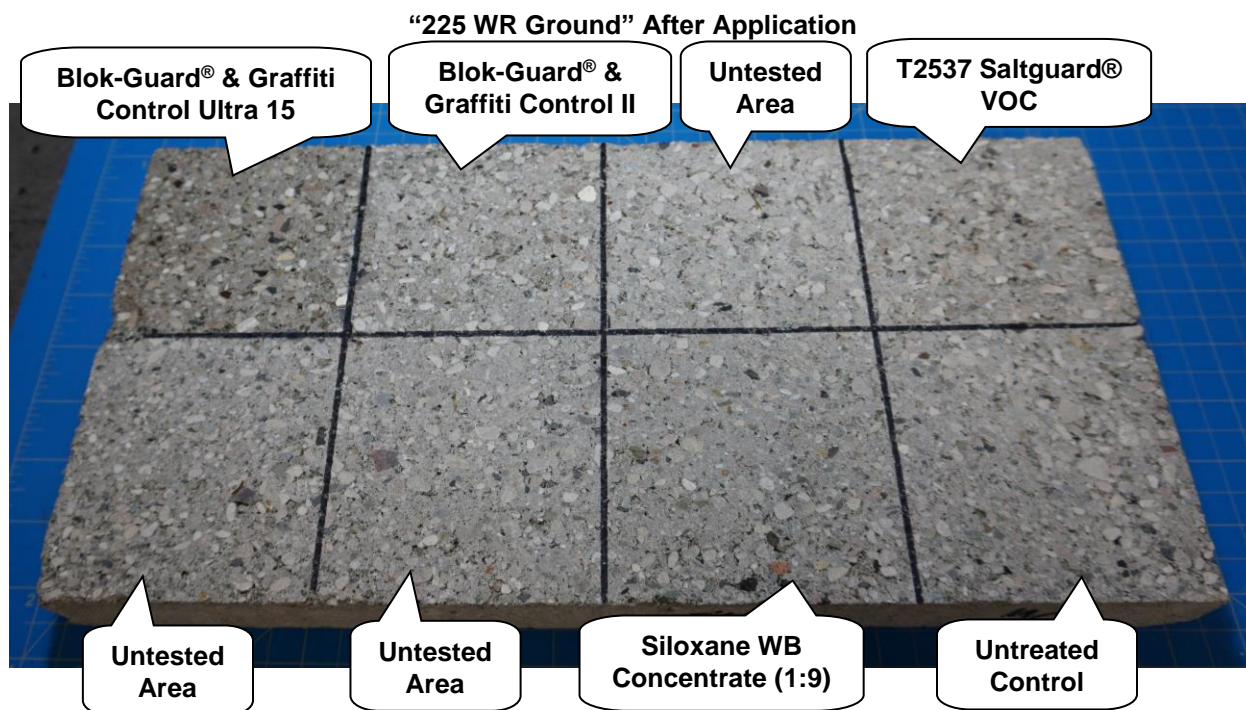
“225 WR Smooth”	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	60 mph
T2537 Saltguard® VOC	60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	60 mph



## TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

### Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes

“225 WR Ground”	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	60 mph
T2537 Saltguard® VOC	60 mph
T2537 Saltguard® VOC	60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	60 mph

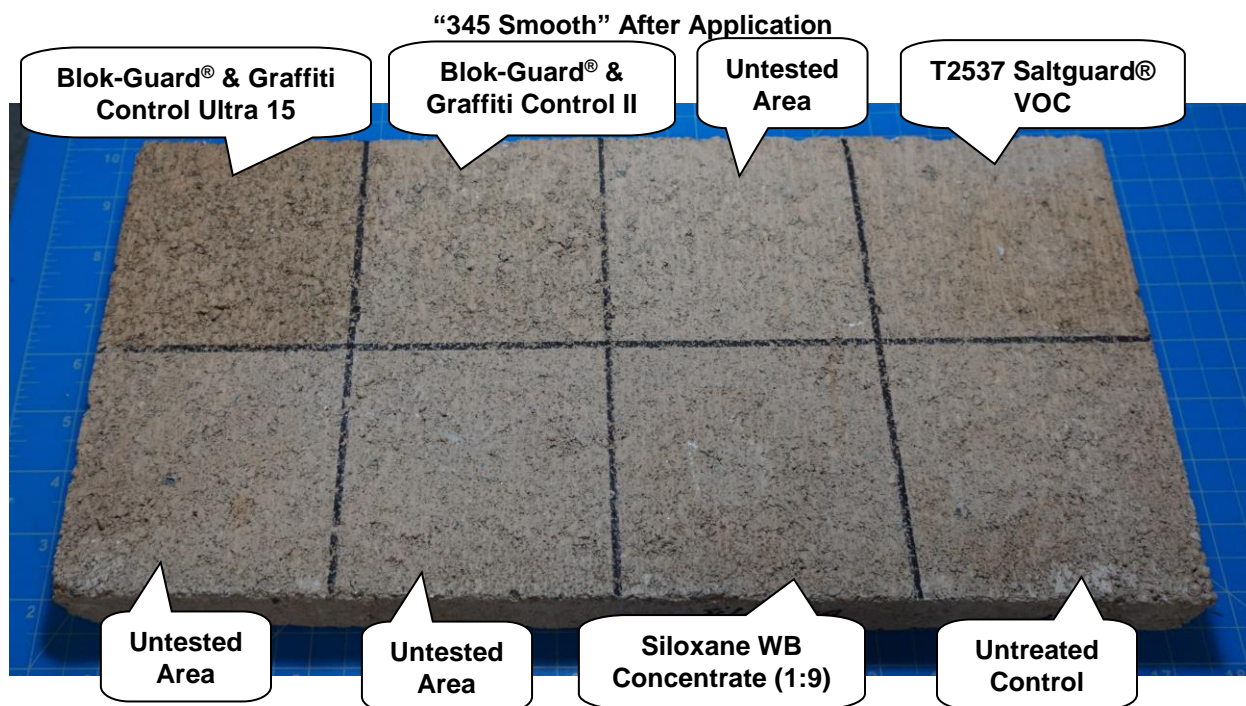




## TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

### Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes

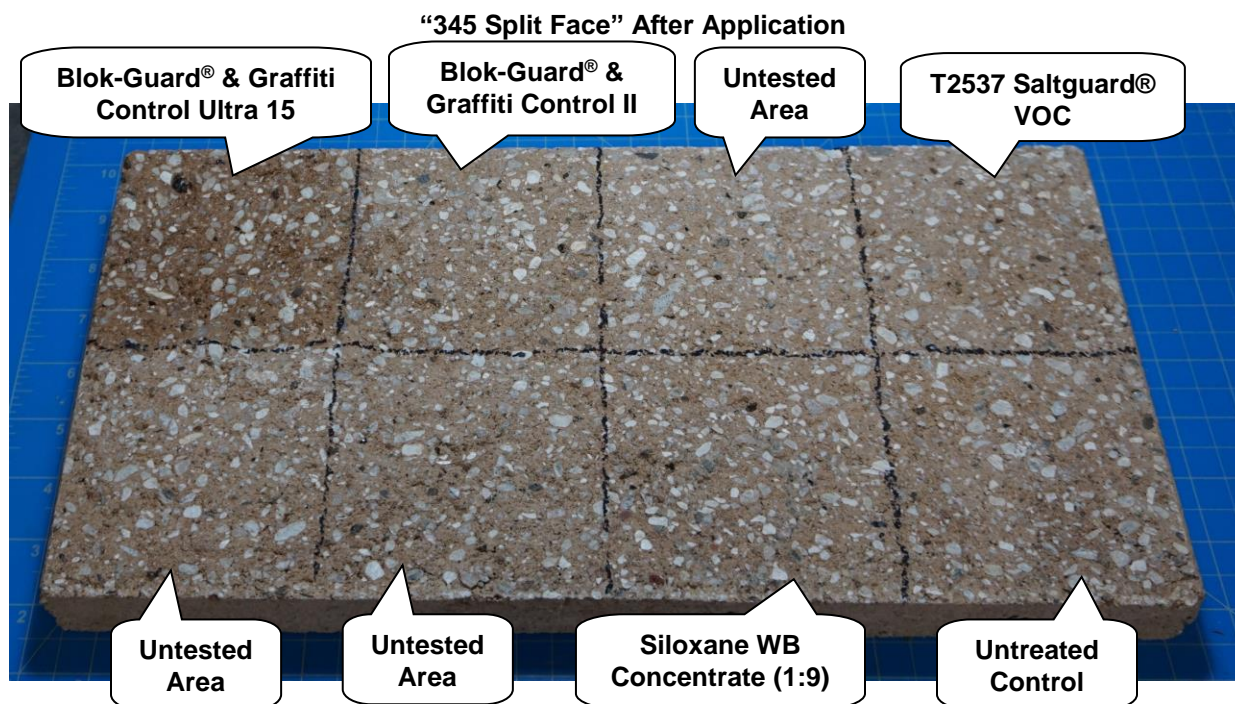
"345 Smooth"	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	60 mph
T2537 Saltguard® VOC	60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	60 mph



## TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

### Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes

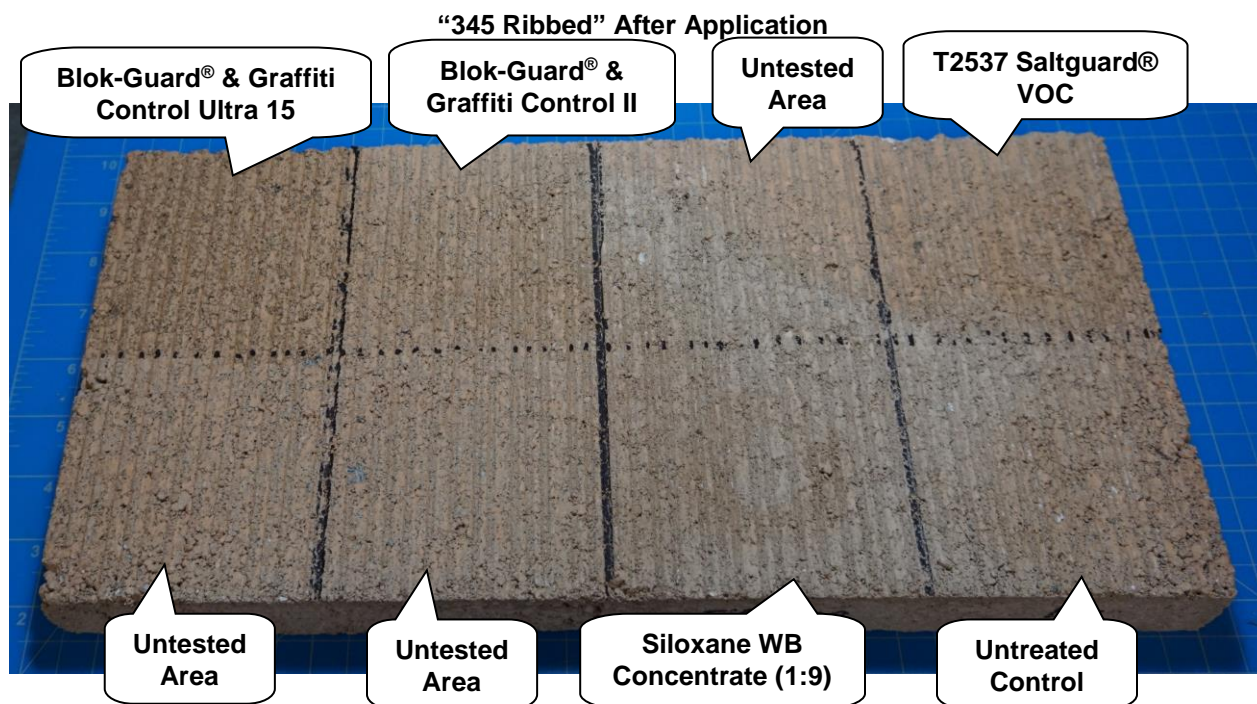
"345 Split Face"	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	56 mph
T2537 Saltguard® VOC	60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	60 mph



## TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

### Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes

"345 Ribbed"	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	60 mph
T2537 Saltguard® VOC	60 mph
T2537 Saltguard® VOC	60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	60 mph

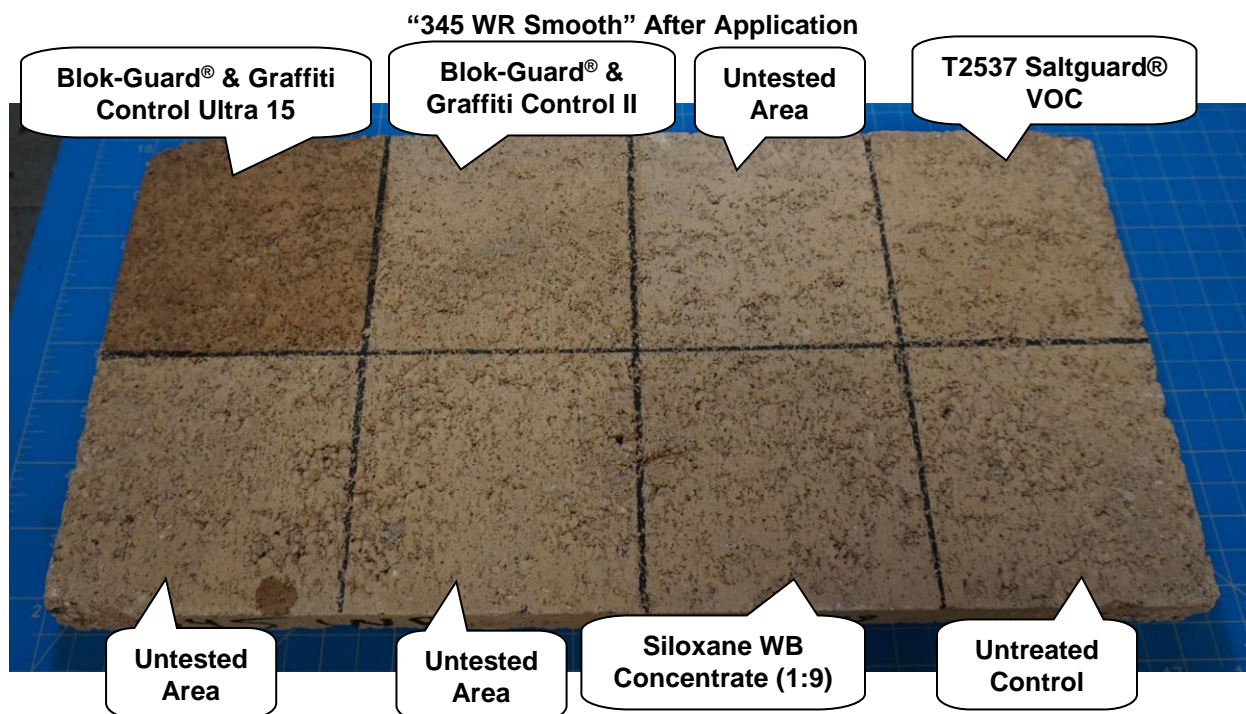




## TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

### Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes

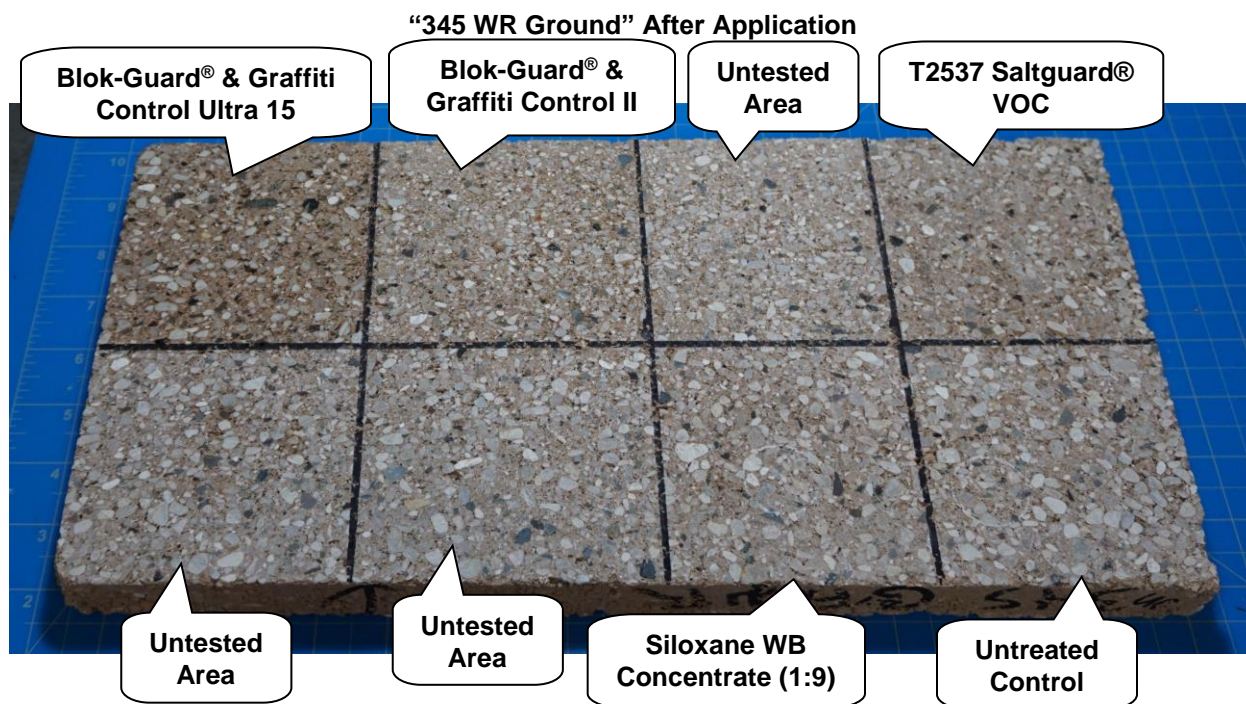
"345 WR Smooth"	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	60 mph
T2537 Saltguard® VOC	60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	60 mph



## TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

### Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes

"345 WR Ground"	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	58 mph
T2537 Saltguard® VOC	60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	60 mph



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## **CONCLUSIONS: Protective Water Repellents**

Based on the laboratory evaluations, all of the treatments provided good water repellent protection to the submitted CMUs, except Sure Klean® Weather Seal Siloxane WB Concentrate on the “225 Ribbed” CMU.

Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15 provided a moderate color enhancement to each CMU. Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II, T2537 Saltguard® VOC, and Sure Klean® Weather Seal Siloxane WB Concentrate provided a slight color enhancement to each CMU.

## RECOMMENDATIONS: Water Repellency

Recommendations for water repellency for each type of CMU submitted by Basalite Concrete Products, Dixon, CA are provided in the chart below. Recommendations are based on the treatment(s) that proved most effective.

Sample	Water Repellency
"225 Smooth" CMU	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15 (Recommended if moderate color enhancement is desired) OR Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II (Recommended if slight color enhancement is desired) OR T2537 Saltguard® VOC (Recommended if slight color enhancement is desired) OR Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) (Recommended if slight color enhancement is desired)
"225 Split Face" CMU	
"225 Ribbed" CMU	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15 (Recommended if moderate color enhancement is desired) OR Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II (Recommended if slight color enhancement is desired) OR T2537 Saltguard® VOC (Recommended if slight color enhancement is desired)
"225 WR Smooth" CMU	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15 (Recommended if moderate color enhancement is desired) OR Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II (Recommended if slight color enhancement is desired) OR T2537 Saltguard® VOC (Recommended if slight color enhancement is desired) OR Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) (Recommended if slight color enhancement is desired)
"225 WR Ground" CMU	
"345 Smooth" CMU	
"345 Split Face" CMU	
"345 Ribbed" CMU	
"345 WR Smooth" CMU	
"345 WR Ground" CMU	

Apply all products in accordance with the manufacturer's recommendation provided on container labels and product data sheets. On-site testing should be conducted to determine the most treatment and procedures for a particular project. See product literature for additional application and product information.

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## TEST METHODS: Graffiti Resistance

This evaluation compares the effectiveness of graffiti control treatments in preventing staining of enamel spray paint and permanent markers.

Spray paint and markers were applied as graffiti agents to the treated surfaces 72 hours after application of Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15 and Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II. Removal of the graffiti agents was attempted 24 hours after application of the graffiti agents, using Defacer Eraser® Graffiti Remover and Enviro Klean® SafStrip® 8.

Chemical cleaners were evaluated using the following procedure:

1. Apply the product to a dry surface, soiled with graffiti.
2. Allow appropriate dwell time:  
    Graffiti Remover ..... 5 minutes  
    SafStrip® 8..... 30 minutes
3. Rinse thoroughly until water runs clear. \*
4. Allow the surface to dry thoroughly and visually examine to determine effectiveness.

**\*Pressure Rinsing Equipment** – Masonry washing equipment generating approximately 700-800 psi with a water flow rate of 8 gallons per minute delivered through a 45-degree fan spray tip was used for rinsing.

**TEST RESULTS: Graffiti Resistance**

<b>"225 Smooth"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	20%	70%	50%	50%	<b>48%</b>
Graffiti Remover	60%	50%	50%	50%	<b>53%</b>
<b>Blok-Guard® &amp; Graffiti Control Ultra 15</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	90%	100%	95%	95%	<b>95%</b>
Graffiti Remover	98%	100%	95%	95%	<b>97%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	90%	95%	50%	50%	<b>71%</b>
Graffiti Remover	95%	90%	50%	50%	<b>71%</b>

<b>"225 Split Face"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	0%	40%	60%	40%	<b>35%</b>
Graffiti Remover	20%	40%	40%	40%	<b>35%</b>
<b>Blok-Guard® &amp; Graffiti Control Ultra 15</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	80%	100%	98%	95%	<b>93%</b>
Graffiti Remover	95%	100%	98%	95%	<b>97%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	20%	80%	50%	50%	<b>50%</b>
Graffiti Remover	80%	50%	70%	50%	<b>63%</b>



**TEST RESULTS: Graffiti Resistance (cont.)**

<b>"225 Ribbed"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	50%	50%	50%	50%	<b>50%</b>
Graffiti Remover	70%	50%	50%	50%	<b>55%</b>
<b>Blok-Guard® &amp; Graffiti Control Ultra 15</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	80%	98%	90%	95%	<b>91%</b>
Graffiti Remover	98%	98%	90%	95%	<b>95%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	80%	90%	80%	80%	<b>83%</b>
Graffiti Remover	90%	90%	80%	80%	<b>85%</b>

<b>"225 WR Smooth"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	50%	50%	50%	50%	<b>50%</b>
Graffiti Remover	40%	50%	50%	50%	<b>48%</b>
<b>Blok-Guard® &amp; Graffiti Control Ultra 15</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	80%	98%	95%	95%	<b>92%</b>
Graffiti Remover	90%	98%	95%	95%	<b>95%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	75%	80%	80%	80%	<b>79%</b>
Graffiti Remover	85%	70%	70%	70%	<b>74%</b>

**TEST RESULTS: Graffiti Resistance (cont.)**

<b>"225 WR Ground"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	0%	50%	30%	30%	<b>28%</b>
Graffiti Remover	0%	30%	30%	30%	<b>23%</b>
<b>Blok-Guard® &amp; Graffiti Control Ultra 15</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	90%	100%	100%	100%	<b>98%</b>
Graffiti Remover	95%	100%	100%	98%	<b>98%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	60%	95%	90%	90%	<b>84%</b>
Graffiti Remover	70%	90%	90%	90%	<b>85%</b>

<b>"345 Smooth"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	80%	80%	80%	80%	<b>80%</b>
Graffiti Remover	90%	50%	50%	50%	<b>60%</b>
<b>Blok-Guard® &amp; Graffiti Control Ultra 15</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	95%	98%	98%	95%	<b>97%</b>
Graffiti Remover	98%	100%	95%	95%	<b>97%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	90%	90%	80%	90%	<b>88%</b>
Graffiti Remover	95%	95%	80%	90%	<b>90%</b>

**TEST RESULTS: Graffiti Resistance (cont.)**

<b>"345 Split Face"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	80%	40%	40%	40%	<b>50%</b>
Graffiti Remover	80%	40%	40%	40%	<b>50%</b>
<b>Blok-Guard® &amp; Graffiti Control Ultra 15</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	90%	100%	100%	100%	<b>98%</b>
Graffiti Remover	95%	100%	100%	98%	<b>98%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	90%	90%	90%	90%	<b>90%</b>
Graffiti Remover	90%	90%	80%	80%	<b>85%</b>

<b>"345 Ribbed"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	80%	60%	60%	60%	<b>65%</b>
Graffiti Remover	10%	80%	70%	70%	<b>58%</b>
<b>Blok-Guard® &amp; Graffiti Control Ultra 15</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	90%	95%	98%	95%	<b>95%</b>
Graffiti Remover	100%	100%	98%	98%	<b>99%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	90%	90%	90%	90%	<b>90%</b>
Graffiti Remover	95%	90%	90%	90%	<b>91%</b>

**TEST RESULTS: Graffiti Resistance (cont.)**

<b>"345 WR Smooth"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	50%	50%	50%	50%	<b>50%</b>
Graffiti Remover	50%	50%	50%	50%	<b>50%</b>
<b>Blok-Guard® &amp; Graffiti Control Ultra 15</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	40%	98%	100%	100%	<b>85%</b>
Graffiti Remover	95%	98%	95%	95%	<b>96%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	60%	70%	70%	70%	<b>68%</b>
Graffiti Remover	80%	50%	50%	50%	<b>58%</b>

<b>"345 WR Ground"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	0%	70%	70%	70%	<b>53%</b>
Graffiti Remover	0%	50%	50%	50%	<b>38%</b>
<b>Blok-Guard® &amp; Graffiti Control Ultra 15</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	90%	100%	100%	100%	<b>98%</b>
Graffiti Remover	95%	100%	100%	100%	<b>99%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
SafStrip® 8	50%	95%	90%	90%	<b>81%</b>
Graffiti Remover	70%	50%	50%	50%	<b>55%</b>

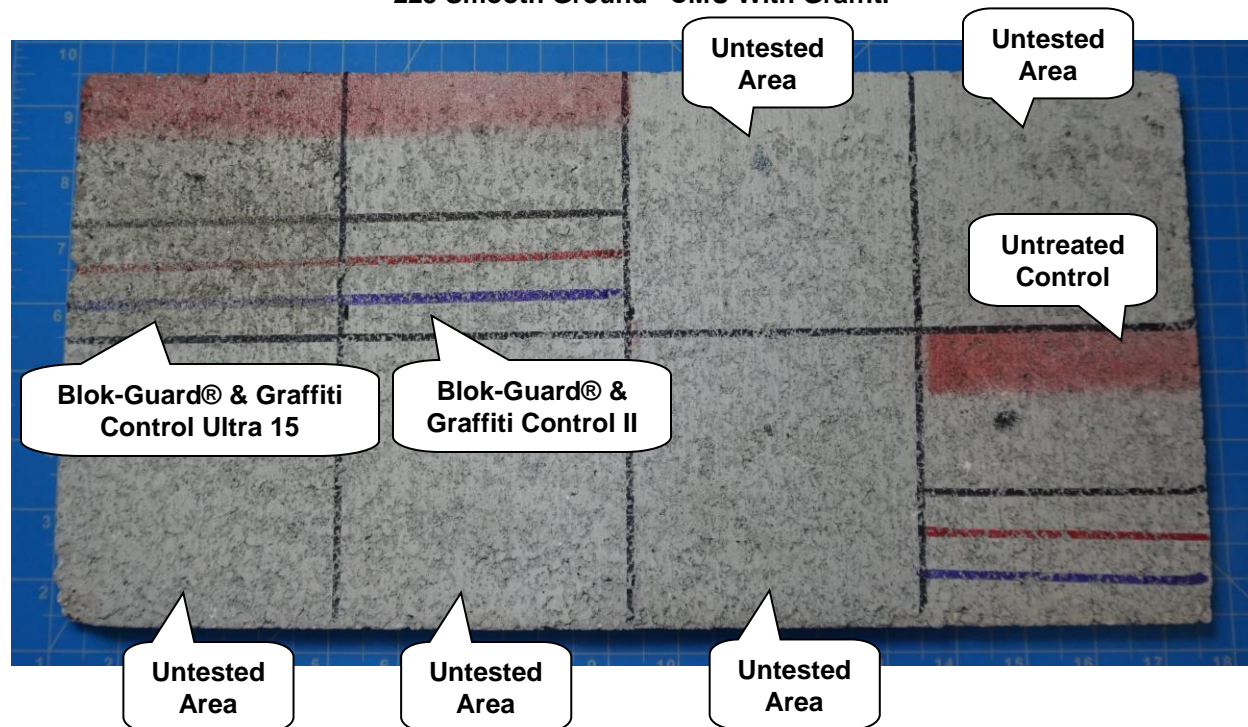


## CONCLUSIONS: Graffiti Resistance

Based upon laboratory evaluations, graffiti removal was improved when the submitted CMUs were treated with both Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15 and Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II, although Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15 was the most effective treatment on most of the samples.

## PHOTOGRAPHS: Graffiti Resistance

**"225 Smooth Ground" CMU With Graffiti**



The photograph shows a rectangular concrete test panel with several vertical and horizontal lines dividing it into sections. Some sections are marked with red and blue paint. Callout boxes with numbers 1 and 2 are placed in various sections. A key at the bottom explains the numbers: 1 = SafStrip® 8, 2 = Graffiti Remover. The panel is placed on a blue surface with a ruler visible at the bottom.

**Untested Area**

**Untested Area**

**Untreated Control**

**1**

**2**

**1**

**2**

**Blok-Guard® & Graffiti Control Ultra 15**

**Blok-Guard® & Graffiti Control II**

**1**

**2**

**Untested Area**

**Untested Area**

**Untested Area**

**KEY**

**1 = SafStrip® 8**

**2 = Graffiti Remover**

## RECOMMENDATIONS: Graffiti Control

Recommendations for graffiti control for each CMU submitted by Basalite Concrete Products, Dixon, CA are provided in the chart below. Recommendations are based on the treatment(s) that proved most effective on average for providing graffiti repellency and the product that was most effective on average at removing the graffiti on all types submitted.

Sample	Graffiti Repellents	Graffiti Removers
All Submitted CMUs	<sup>1</sup> Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15 (Recommended if moderate color enhancement is desired) OR <sup>2</sup> Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II (Recommended if slight color enhancement is desired)	Defacer Eraser® Graffiti Remover OR Enviro Klean® SafStrip® 8

NOTE: "1" indicates the most effective treatment and "2" indicates the second most effective treatment.

Apply all products in accordance with the manufacturer's recommendation provided on container labels and product data sheets. Because the severity of graffiti varies from location to location, on-site testing should be conducted to determine the most appropriate graffiti control product and procedure for a particular project.



J. Lucas Comadoll  
QC/Project Testing Technician

**ALL SAMPLES SUPPLIED FOR THE ABOVE EVALUATION WILL BE DISPOSED OF THIRTY (30) DAYS AFTER THE ISSUE DATE OF THIS REPORT. IF SAMPLES ARE TO BE RETAINED FOR ADDITIONAL TESTING OR RETURNED TO THE SENDER, PROVIDE WRITTEN INSTRUCTIONS TO THE LABORATORY WITHIN THIRTY (30) DAYS OF THE ISSUE DATE OF THIS REPORT.**

Recommendations made within this report are based on laboratory test applications and observations. Final determination of the suitability of a product and/or procedure should be made only after thorough job testing on actual surfaces.