

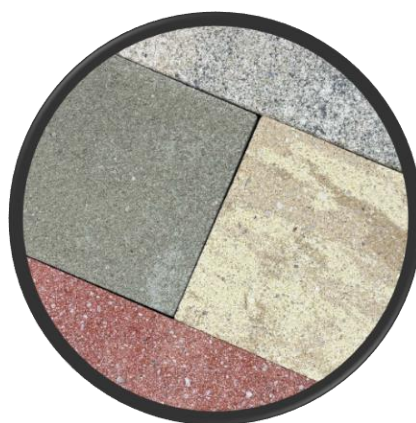


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Pallet Tag Program Laboratory Report

Arriscraft

Fort Valley, GA



Project No. 2502-04 PTP

Prepared For:



PROSOCO

Prepared By:

J. Lucas Comadoll

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Chemist
AMT Laboratories

March 2025



LABORATORY REPORT

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FOR: Barney Wanner, Arriscraft
Matt D'Amico, Arriscraft
cc: Bill Daniel, PROSOCO, Inc.
Clay Witt, PROSOCO, Inc.
Jake Boyer, PROSOCO, Inc.

SUBJECT: Arriscraft
Fort Valley, GA
Pallet Tag Evaluation

DATE: March 24, 2025
PROJECT: 2502-04 PTP

SAMPLES SUBMITTED: 13 types of calcium silicate masonry units (CSMU)

Type	Finish	Name	Color	Size
(3) CSMU	Rocked	"Limestone"	White	7 3/4" x 7 3/4" x 3/4"
(3) CSMU	Satin	"Basalt"	Black	7 3/4" x 7 3/4" x 3/4"
(3) CSMU	Satin	"Champagne"	Buff	7 3/4" x 7 3/4" x 3/4"
(3) CSMU	Satin	"Limestone"	White	7 3/4" x 7 3/4" x 3/4"
(3) CSMU	Satin	"Montecito"	Light Green	7 3/4" x 7 3/4" x 3/4"
(3) CSMU	Satin	"Mountain Ridge"	Buff and Gray	7 3/4" x 7 3/4" x 3/4"
(3) CSMU	Satin	"Sunset"	Buff	7 3/4" x 7 3/4" x 3/4"
(3) CSMU	Satin	"Tan"	Buff	7 3/4" x 7 3/4" x 3/4"
(3) CSMU	Smooth	"Café"	Light Brown	7 3/4" x 7 3/4" x 3/4"
(3) CSMU	Smooth	"Ginger"	Buff and Brown	7 3/4" x 7 3/4" x 3/4"
(3) CSMU	Smooth	"Magnolia"	Light Green	7 3/4" x 7 3/4" x 3/4"
(3) CSMU	Smooth	"Oak Ridge"	Buff	7 3/4" x 7 3/4" x 3/4"
(3) CSMU	Smooth	"Red Rock"	Red	7 3/4" x 7 3/4" x 3/4"

SUBMITTED BY: Bill Daniel, PROSOCO, Inc.

PURPOSE OF TEST:

- To determine the most appropriate PROSOCO, Inc. new construction cleaner(s) for the submitted samples.
- To determine the most appropriate PROSOCO, Inc. water repellent for the submitted samples.

PRODUCTS EVALUATED:

New Construction Cleaning	Dilution:
Sure Klean® Light Duty Concrete Cleaner	1:2, 1:3
Sure Klean® Vana Trol®	1:6, 1:8

Water Repellency	Dilution:
Sure Klean® Weather Seal Siloxane WB Concentrate	1:14
Sure Klean® Weather Seal Natural Stone Treatment WB	N/A*

***NOTE:** Per the product data sheet instructions, only use the product in concentrate. Do not dilute.

TEST METHODS: New Construction Cleaning

Sure Klean® Light Duty Concrete Cleaner and Sure Klean® Vana Trol® were evaluated on the submitted samples to determine the optimal concentration of cleaner which leaves the external surface looking most like the natural through-body color of the CSMU.

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 CSMU.

Aggregate Exposure is the visual examination comparing aggregate exposure of the interior, through-body section of the CSMU 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 CSMU 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

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 and periodically agitate:
Light Duty Concrete Cleaner5 minutes
Vana Trol®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.

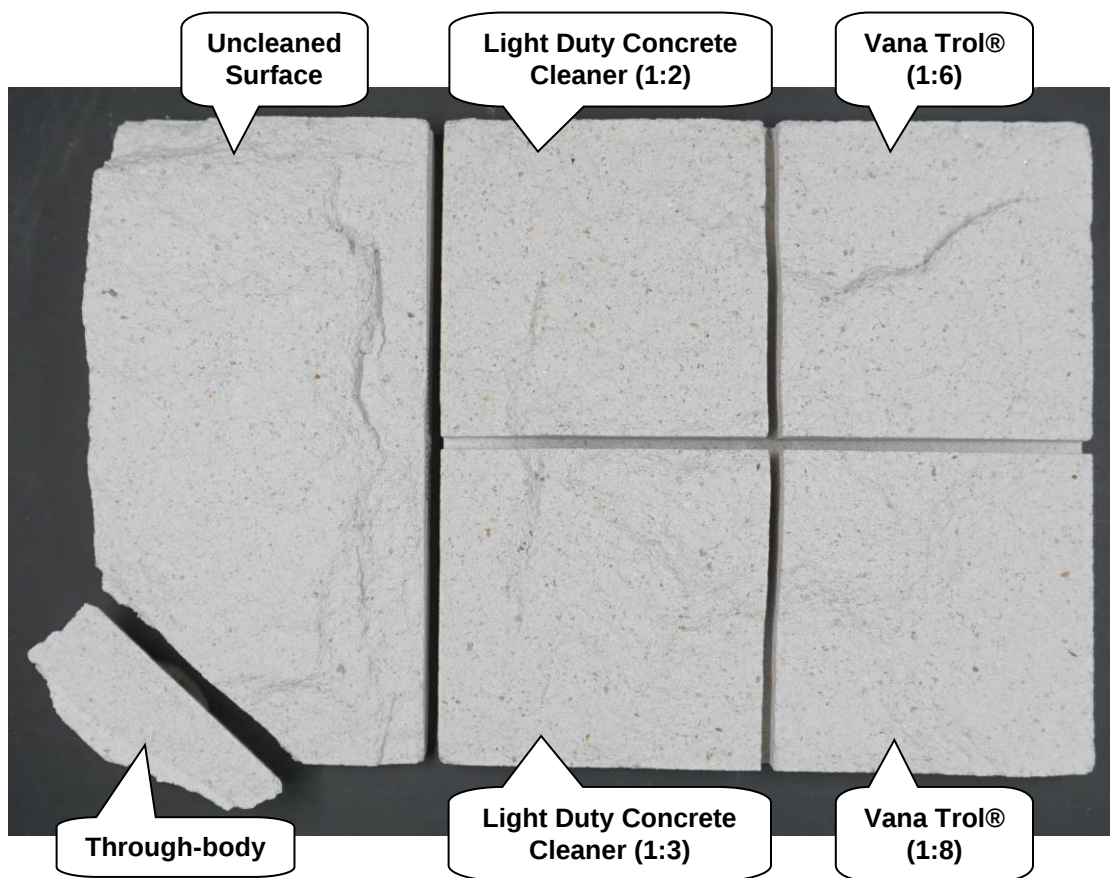
***Rinsing Equipment** – Masonry washing equipment generating approximately 600-700 psi with a water flow rate of 8 gallons per minute delivered through a 40-degree fan spray tip was used for rinsing.

TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning

Name: Rocked "Limestone" CSMU			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Light Duty Concrete Cleaner	1:2	1	1
Light Duty Concrete Cleaner	1:3	1	1
Vana Trol®	1:6	1*	1*
Vana Trol®	1:8	1*	1*

***NOTE:** Very slight change compared to uncleaned surface.

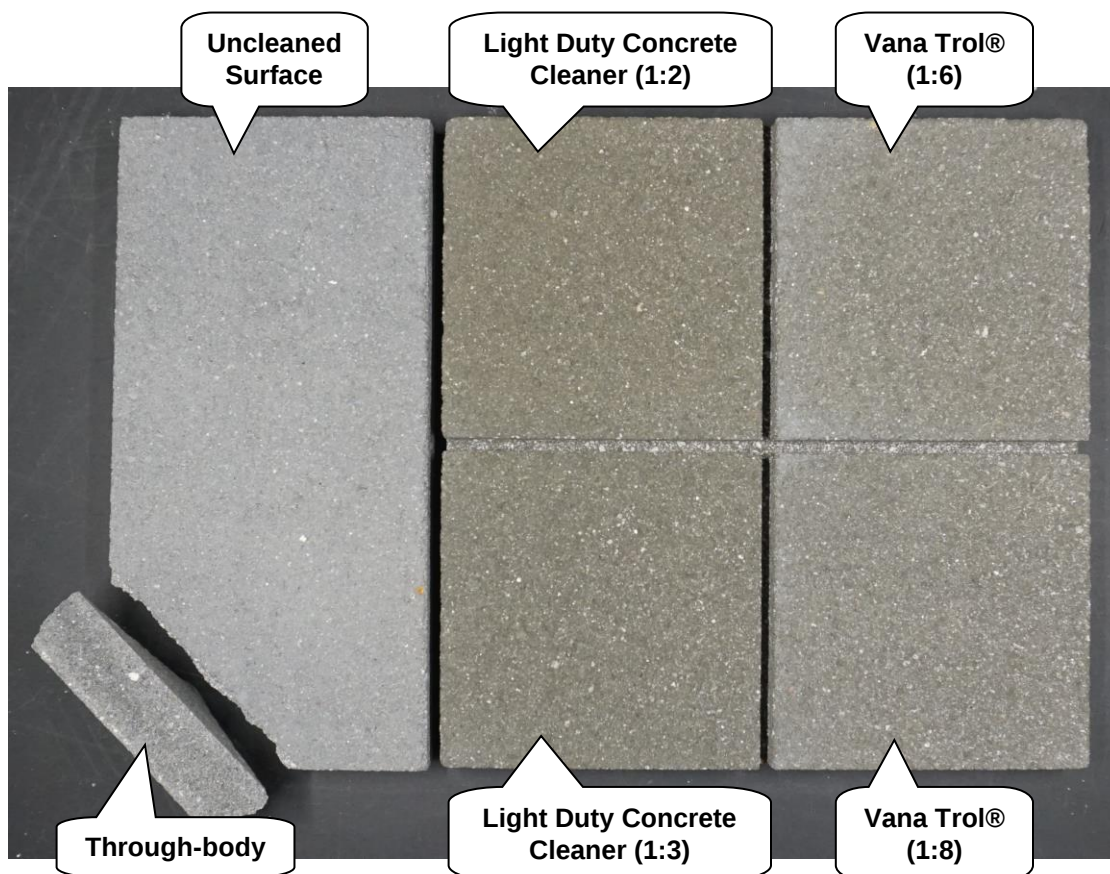
Rocked "Limestone" CSMU After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: Satin "Basalt" CSMU			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Light Duty Concrete Cleaner	1:2	2	2
Light Duty Concrete Cleaner	1:3	2	2
Vana Trol®	1:6	1	1
Vana Trol®	1:8	1	1

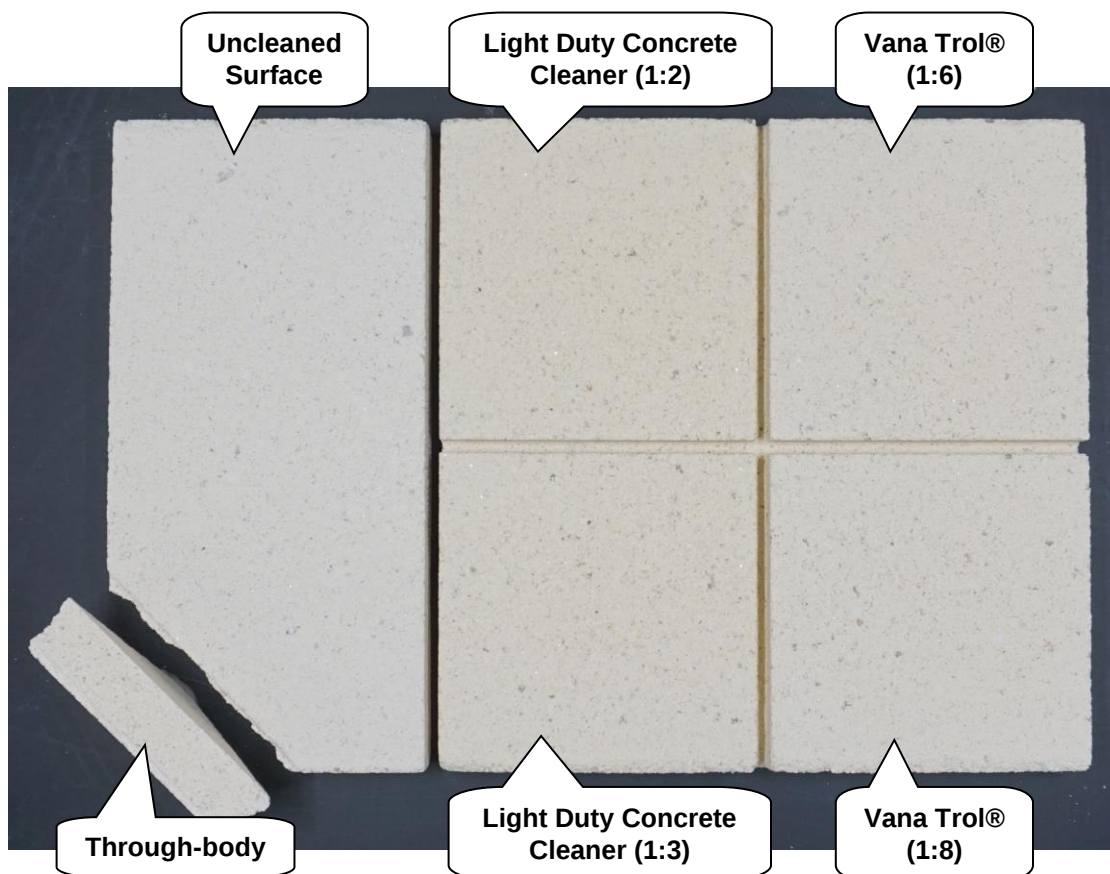
Satin "Basalt" CSMU After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: Satin "Champagne" CSMU			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Light Duty Concrete Cleaner	1:2	2	2
Light Duty Concrete Cleaner	1:3	2	2
Vana Trol®	1:6	1	1
Vana Trol®	1:8	1	1

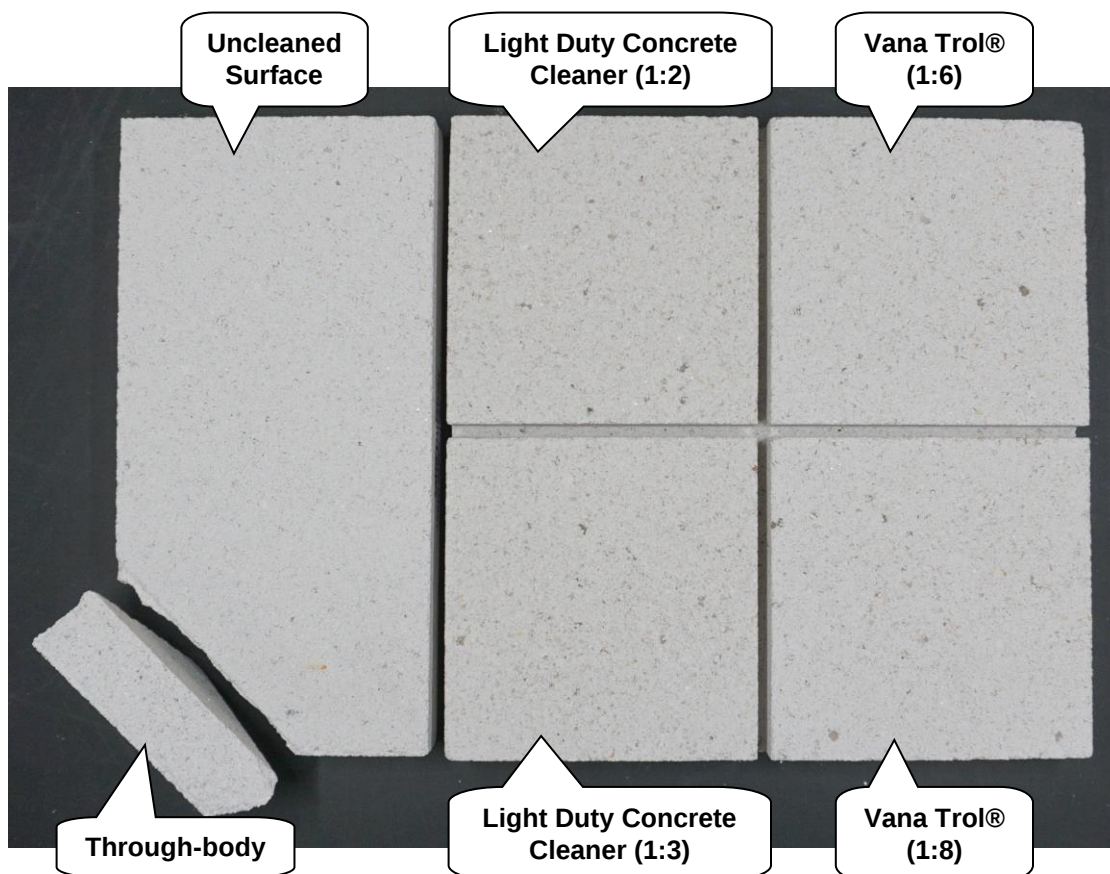
Satin "Champagne" CSMU After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: Satin "Limestone" CSMU			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Light Duty Concrete Cleaner	1:2	2	2
Light Duty Concrete Cleaner	1:3	2	2
Vana Trol®	1:6	1	1
Vana Trol®	1:8	1	1

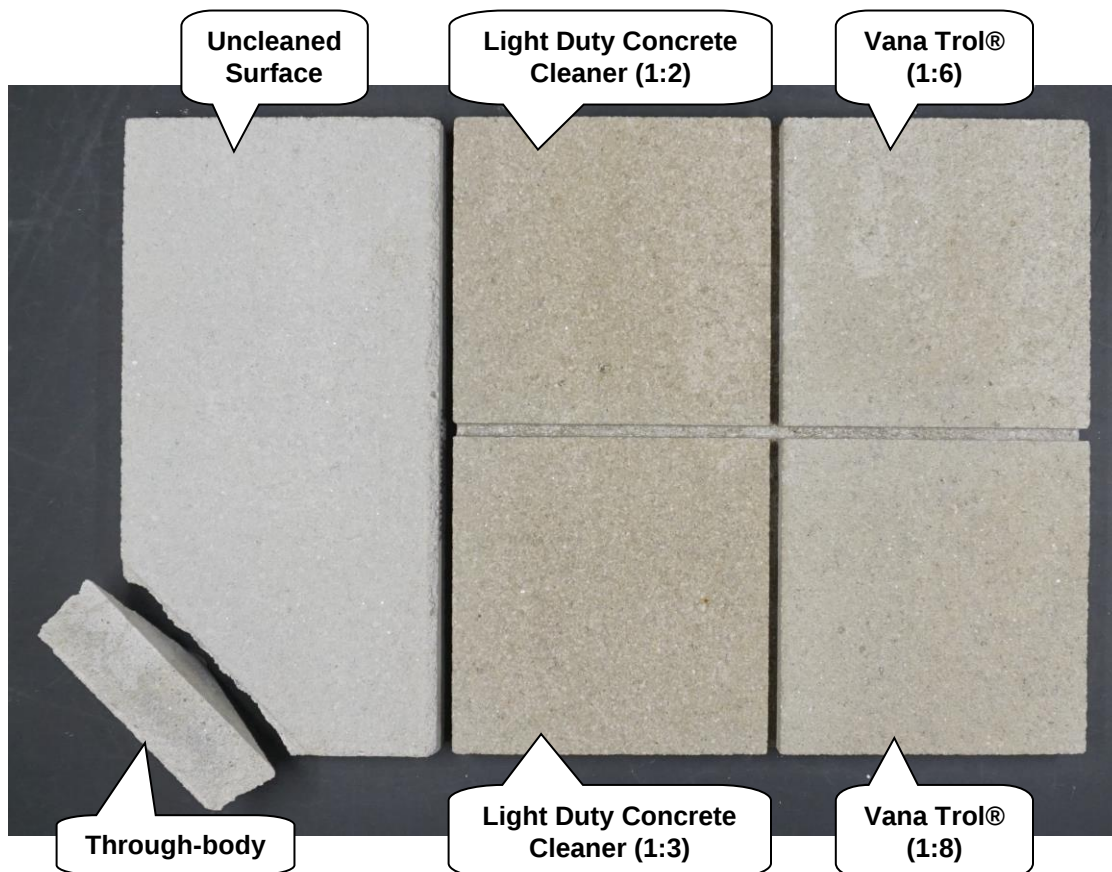
Satin "Limestone" CSMU After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: Satin "Montecito" CSMU			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Light Duty Concrete Cleaner	1:2	2	2
Light Duty Concrete Cleaner	1:3	2	2
Vana Trol®	1:6	1	1
Vana Trol®	1:8	1	1

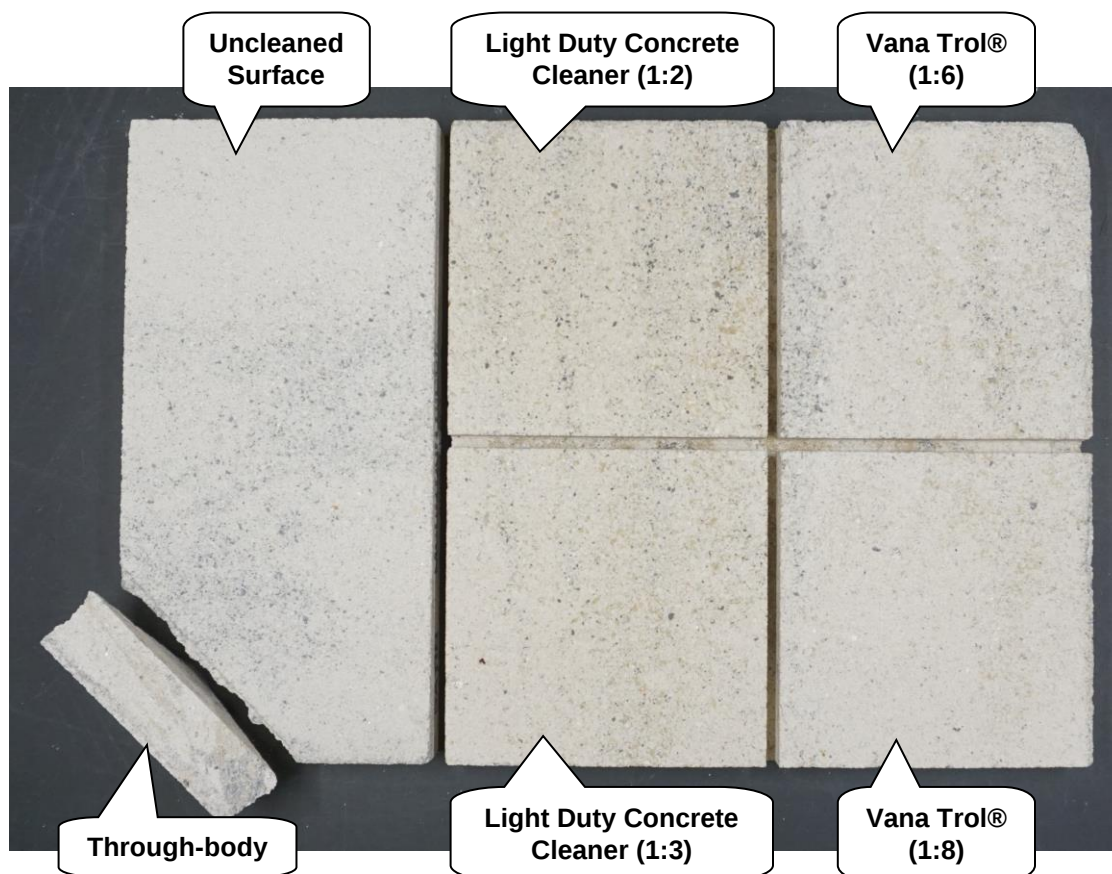
Satin "Montecito" CSMU After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: Satin "Mountain Ridge" CSMU			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Light Duty Concrete Cleaner	1:2	2	2
Light Duty Concrete Cleaner	1:3	2	2
Vana Trol®	1:6	1	1
Vana Trol®	1:8	1	1

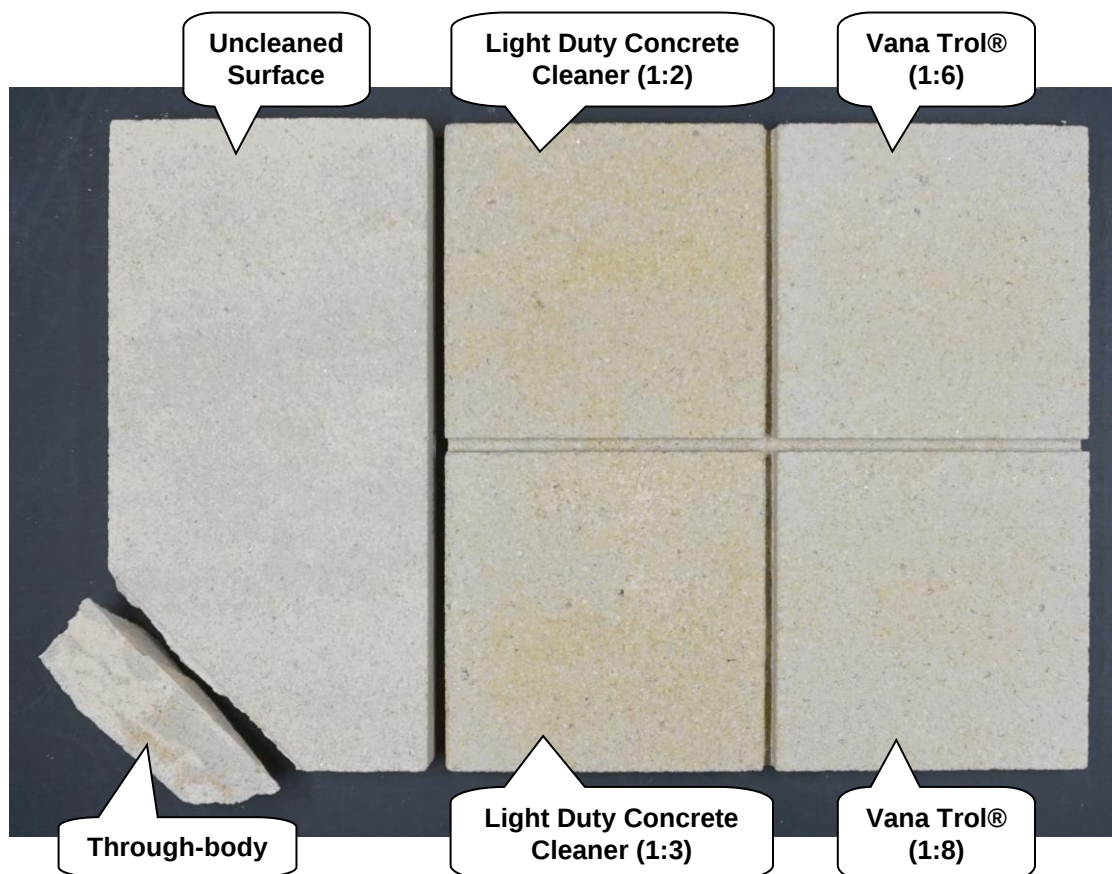
Satin "Mountain Ridge" CSMU After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: Satin "Sunset" CSMU			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Light Duty Concrete Cleaner	1:2	2	2
Light Duty Concrete Cleaner	1:3	2	2
Vana Trol®	1:6	1	1
Vana Trol®	1:8	1	1

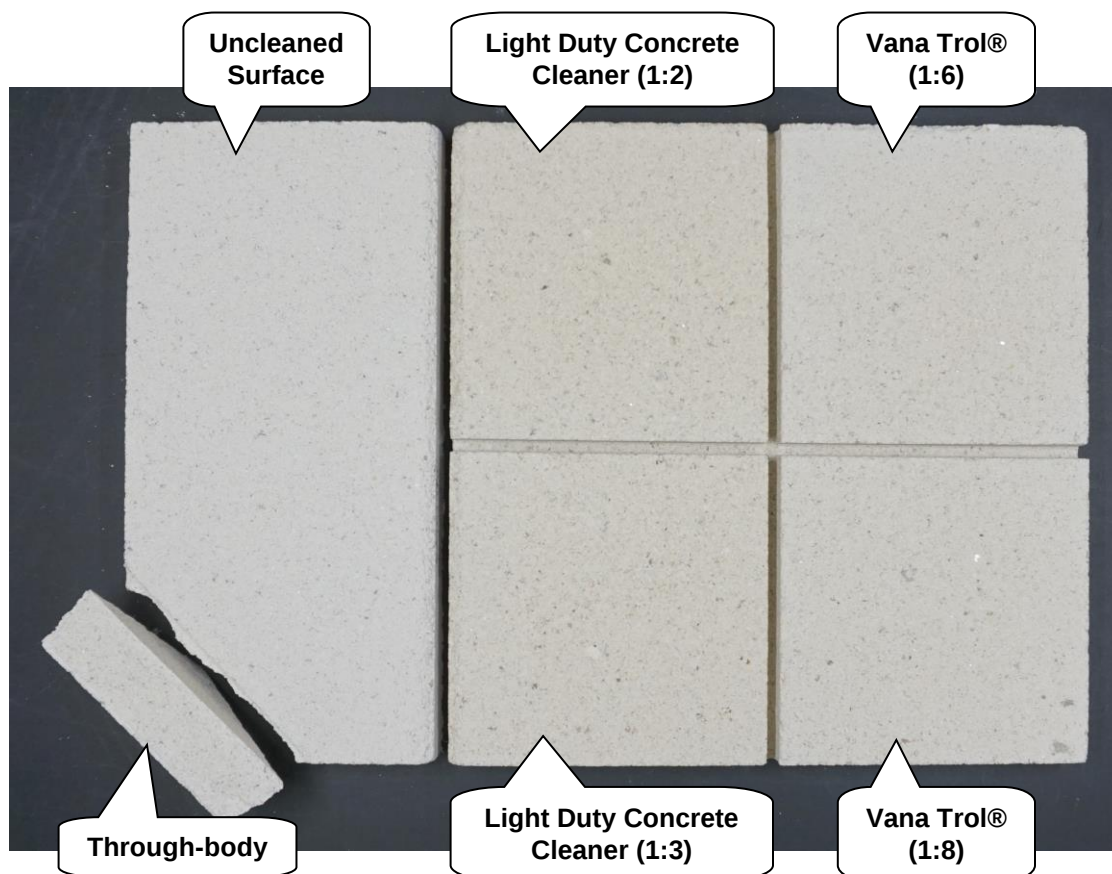
Satin "Sunset" CSMU After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: Satin "Tan" CSMU			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Light Duty Concrete Cleaner	1:2	2	2
Light Duty Concrete Cleaner	1:3	2	2
Vana Trol®	1:6	1	1
Vana Trol®	1:8	1	1

Satin "Tan" CSMU After Cleaning

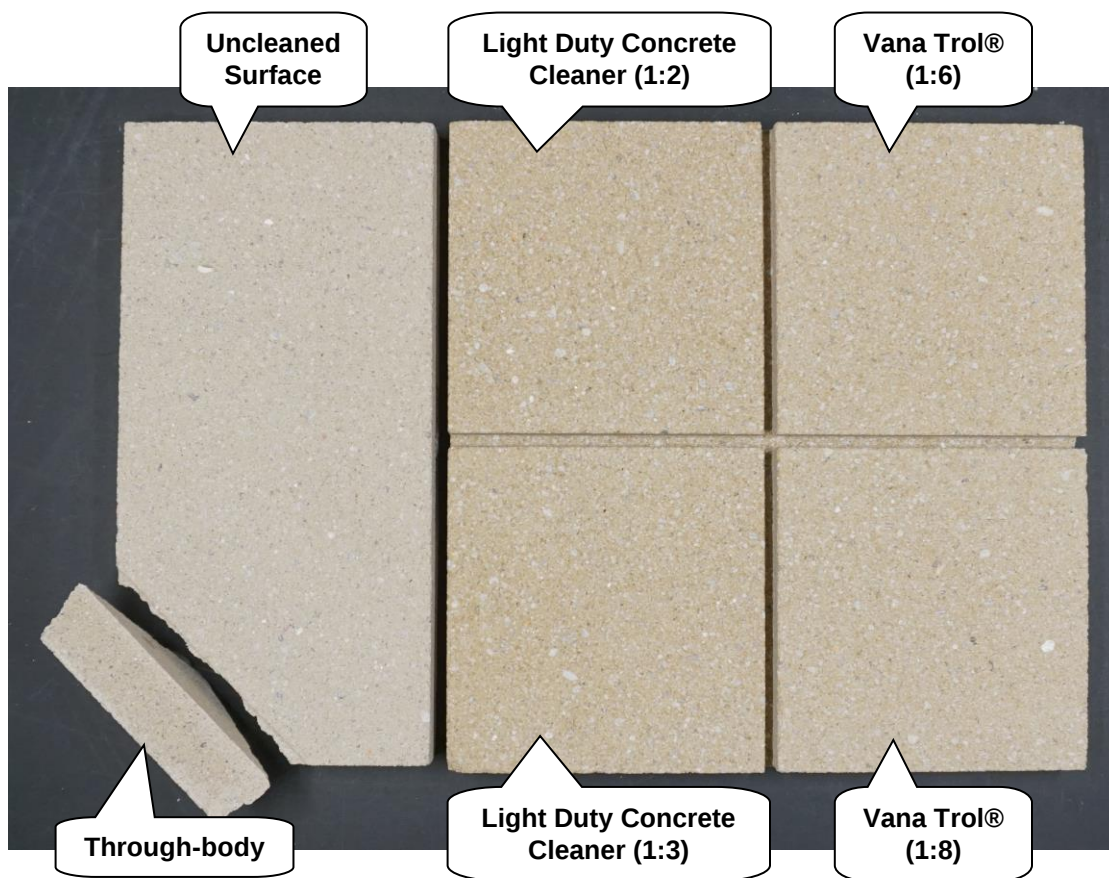


TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: Smooth "Café" CSMU			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Light Duty Concrete Cleaner	1:2	1	1
Light Duty Concrete Cleaner	1:3	1	1
Vana Trol®	1:6	1*	1*
Vana Trol®	1:8	1*	1*

***NOTE:** Very slight change compared to uncleaned surface.

Smooth "Café" CSMU After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: Smooth "Ginger" CSMU			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Light Duty Concrete Cleaner	1:2	1	1
Light Duty Concrete Cleaner	1:3	1	1
Vana Trol®	1:6	1*	1*
Vana Trol®	1:8	1*	1*

***NOTE:** Very slight change compared to uncleaned surface.

Smooth "Ginger" CSMU After Cleaning

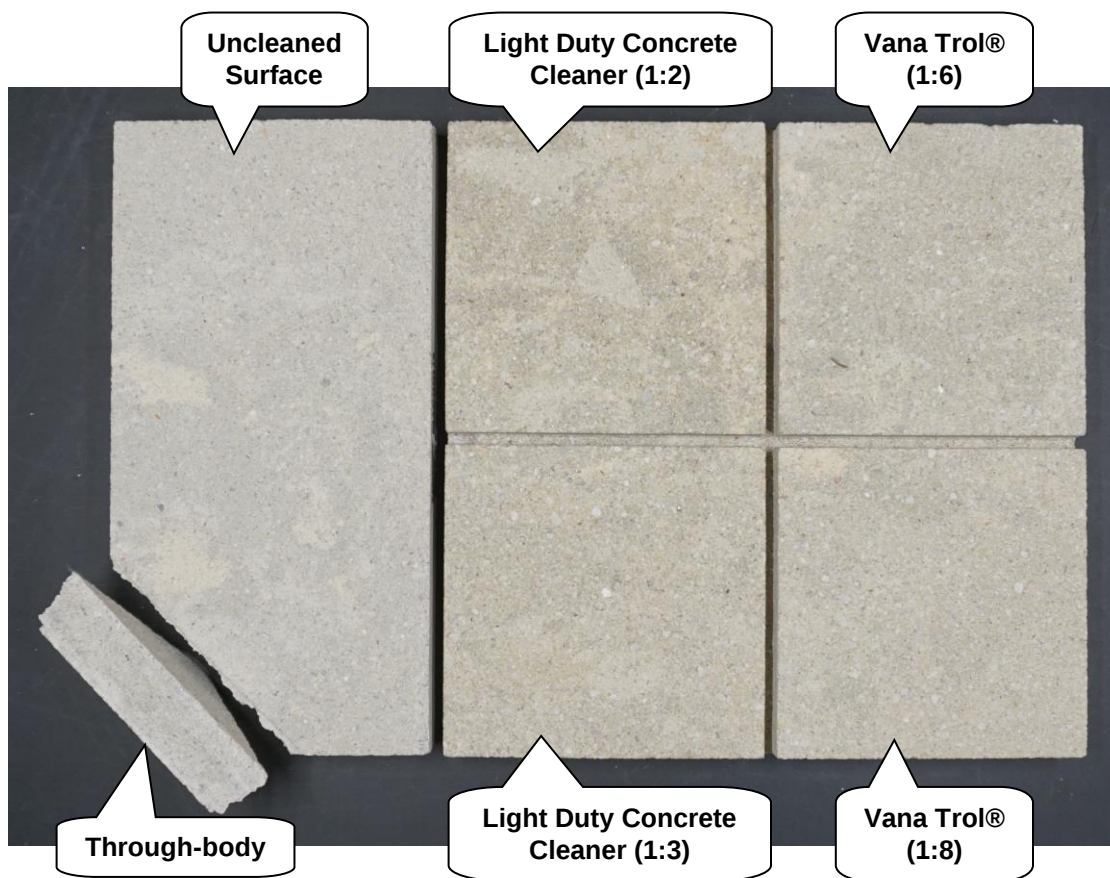


TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: Smooth "Magnolia" CSMU			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Light Duty Concrete Cleaner	1:2	1	1
Light Duty Concrete Cleaner	1:3	1	1
Vana Trol®	1:6	1*	1*
Vana Trol®	1:8	1*	1*

***NOTE:** Very slight change compared to uncleaned surface.

Smooth "Magnolia" CSMU After Cleaning

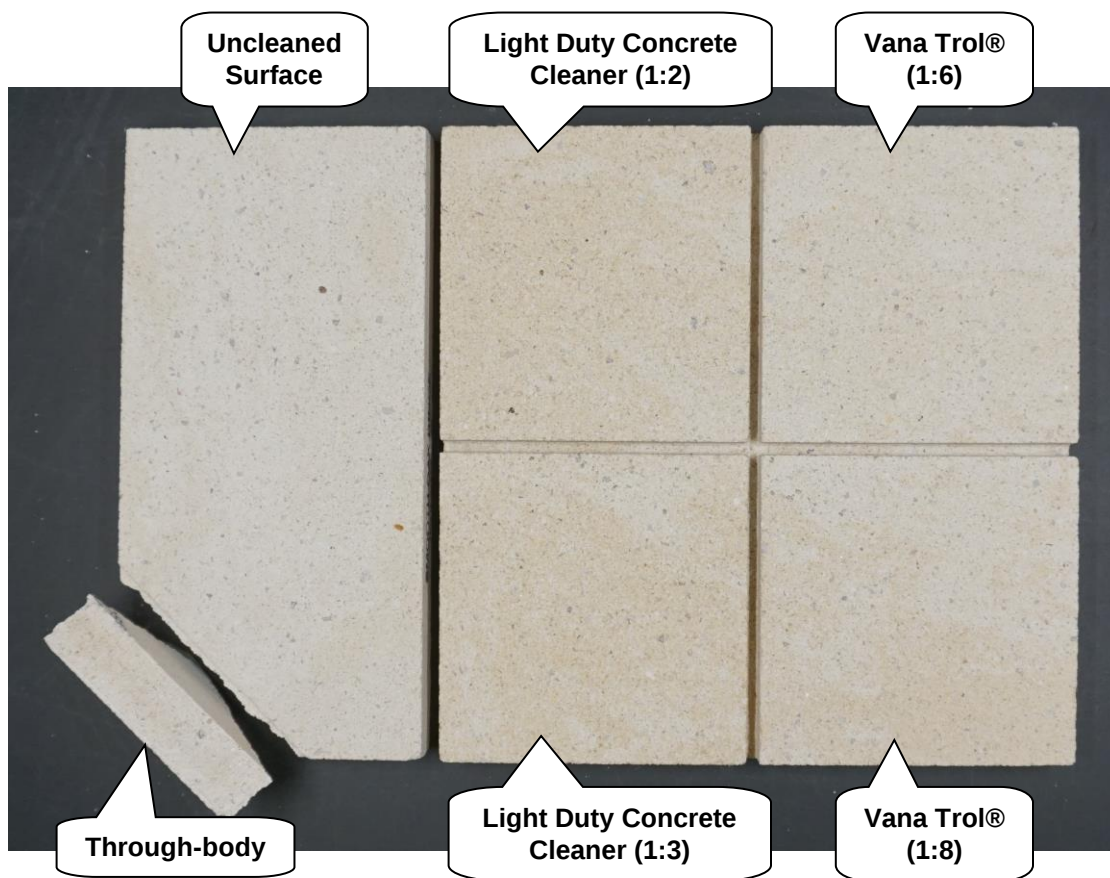


TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: Smooth "Oak Ridge" CSMU			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Light Duty Concrete Cleaner	1:2	1	1
Light Duty Concrete Cleaner	1:3	1	1
Vana Trol®	1:6	1*	1*
Vana Trol®	1:8	1*	1*

***NOTE:** Very slight change compared to uncleaned surface.

Smooth "Oak Ridge" CSMU After Cleaning

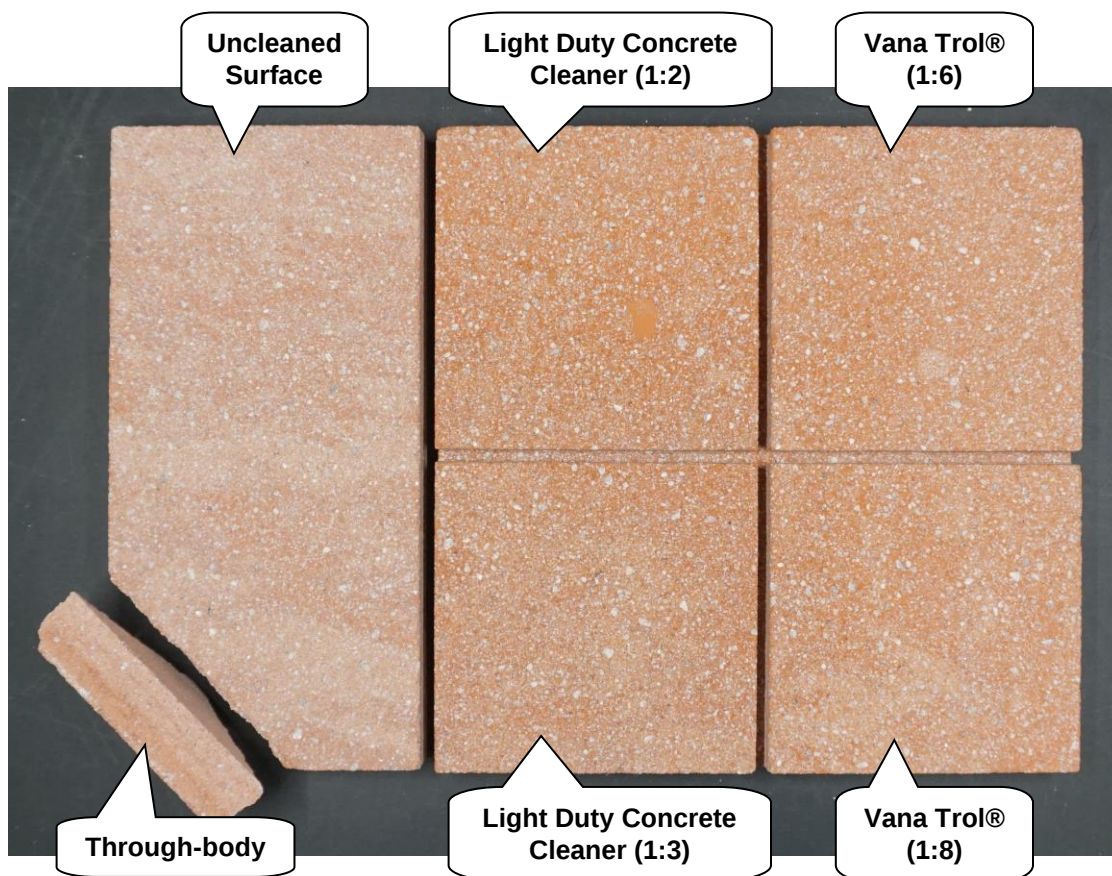


TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: Smooth "Red Rock" CSMU			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Light Duty Concrete Cleaner	1:2	1	1
Light Duty Concrete Cleaner	1:3	1	1
Vana Trol®	1:6	1*	1*
Vana Trol®	1:8	1*	1*

***NOTE:** Very slight change compared to uncleaned surface.

Smooth "Red Rock" CSMU After Cleaning



CONCLUSIONS: New Construction Cleaning

In the cleaning tests conducted on the CSMU, both dilutions of Sure Klean® Light Duty Concrete Cleaner removed a slight to moderate amount of surface pigment, exposing a slight to moderate amount of aggregate. Both dilutions of Sure Klean® Sure Klean® Vana Trol® removed a very slight to slight amount of surface pigment, exposing a very slight to slight amount of aggregate, depending on the CSMU.

All of the new construction cleaners in each dilution evaluated provided an accurate match to the through-body color of each CSMU.

When choosing the most appropriate product for the desired result:

- For common construction and atmospheric staining – Test Sure Klean® Light Duty Concrete Cleaner
- For colored mortar and to simplifying rinsing and reduce the potential for efflorescence – Test Sure Klean® Vana Trol®

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

It is recommended that the selected cleaners always be used in the lowest possible concentration. Apply all products in accordance with the manufacturer's recommendations 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.

RECOMMENDATIONS: New Construction Cleaning

Recommendations for cleaning each type of CSMU submitted by Arriscraft, Fort Valley, GA 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
Rocked "Limestone" CSMU	¹ Sure Klean® Vana Trol® (1:6) or (1:8) OR ² Sure Klean® Light Duty Concrete Cleaner (1:2) or (1:3)
Satin "Basalt" CSMU	
Satin "Champagne" CSMU	
Satin "Limestone" CSMU	
Satin "Montecito" CSMU	
Satin "Mountain Ridge" CSMU	
Satin "Sunset" CSMU	
Satin "Tan" CSMU	
Smooth "Café" CSMU	
Smooth "Ginger" CSMU	
Smooth "Magnolia" CSMU	
Smooth "Oak Ridge" CSMU	
Smooth "Red Rock" CSMU	

NOTE: "1" indicates the recommended first choice and "2" indicates the recommended second choice.

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.

SAMPLE PREPARATION: Treatment Application

Prior to treatment application, the submitted CSMUs were cleaned with Sure Klean® Vana Trol® diluted with eight parts water. After the samples had dried for at least 24 hours, Sure Klean® Weather Seal Siloxane WB Concentrate diluted with fourteen parts water and Sure Klean® Weather Seal Natural Stone Treatment WB 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.

TEST METHODS: Protective Water Repellents

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

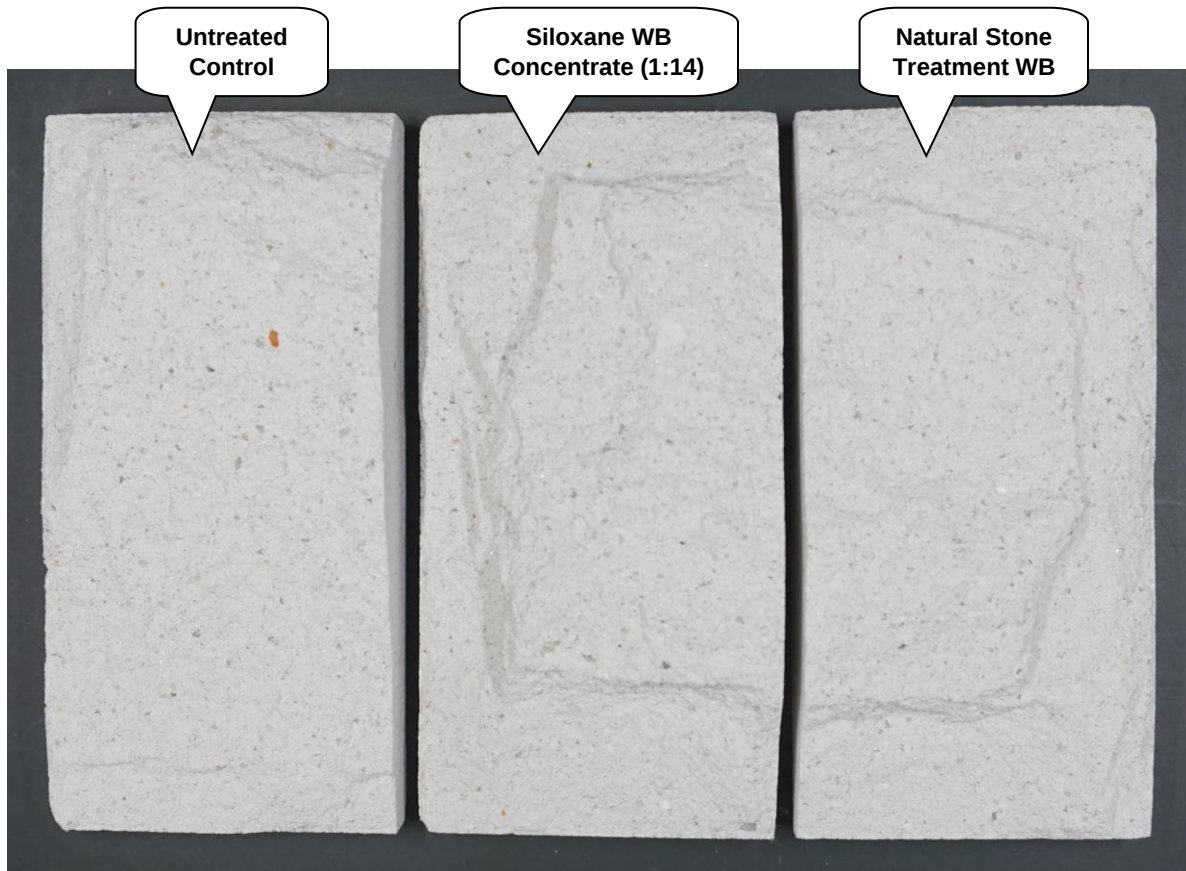
The water absorption tube test simulating wind driven rain conditions was performed. This test simulates 60 mile per hour wind driven rain conditions for a period of 20 minutes.

TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents

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

Rocked "Limestone" CSMU	
Untreated Control	55 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:14)	60 mph
Sure Klean® Weather Seal Natural Stone Treatment WB	60 mph

Rocked "Limestone" CSMU with Treatments

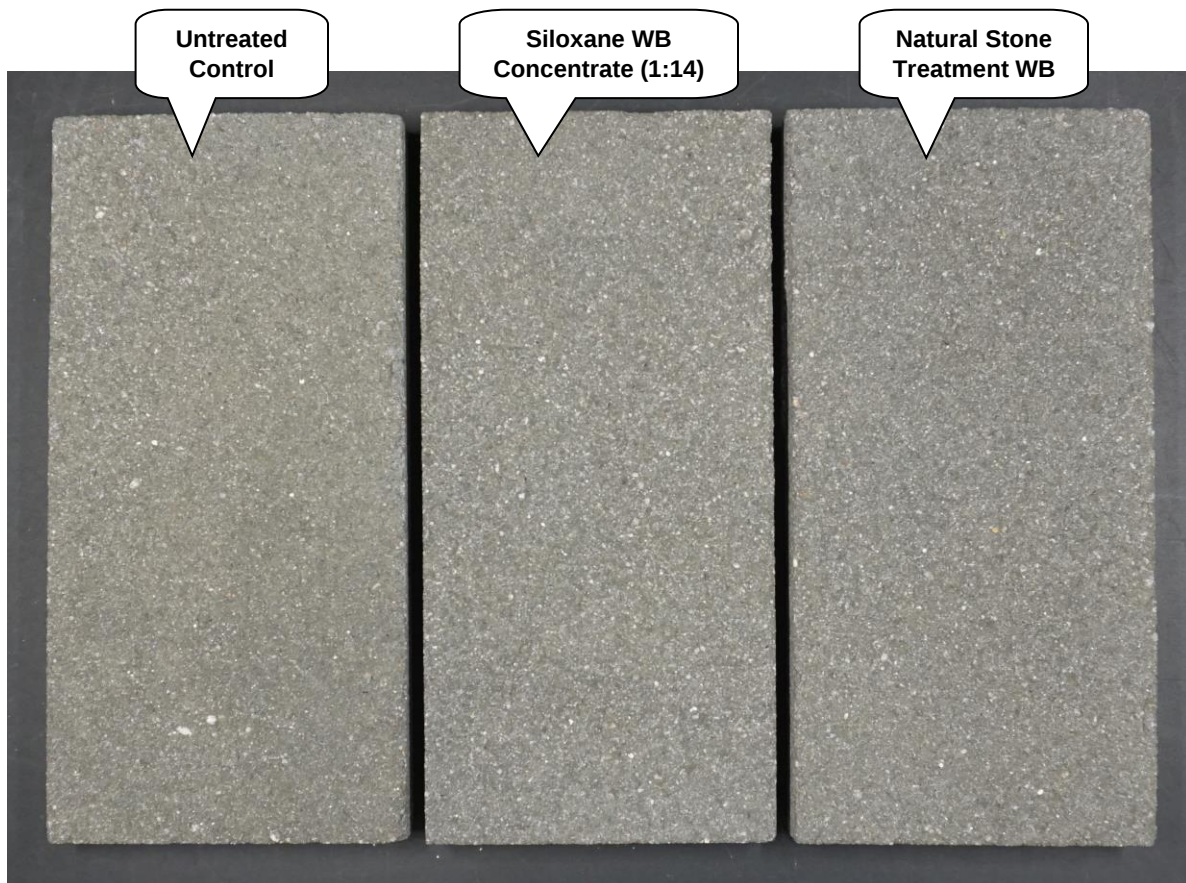


TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

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

Satin "Basalt" CSMU	
Untreated Control	54 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:14)	60 mph
Sure Klean® Weather Seal Natural Stone Treatment WB	60 mph

Satin "Basalt" CSMU with Treatments



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

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

Satin "Champagne" CSMU	
Untreated Control	57 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:14)	60 mph
Sure Klean® Weather Seal Natural Stone Treatment WB	60 mph

Satin "Champagne" CSMU with Treatments

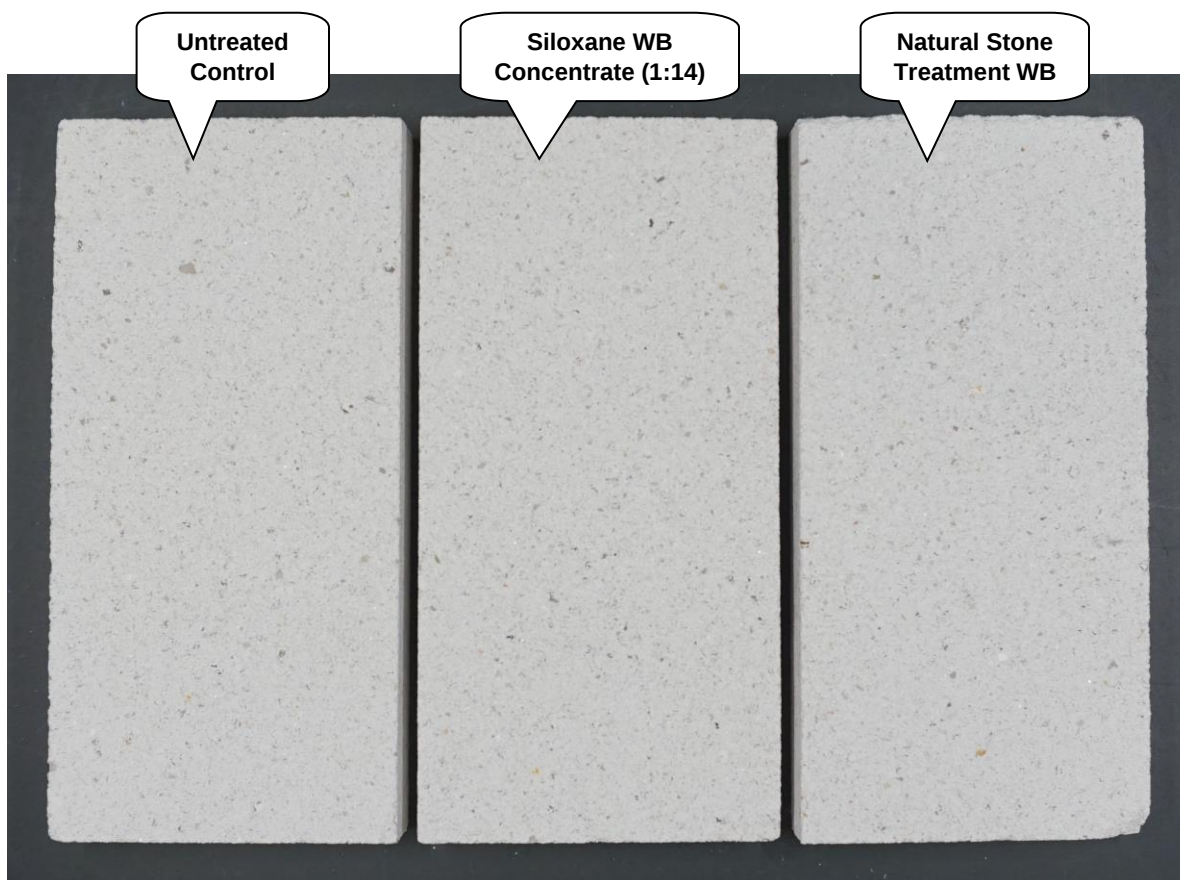


TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

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

Satin "Limestone" CSMU	
Untreated Control	55 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:14)	60 mph
Sure Klean® Weather Seal Natural Stone Treatment WB	60 mph

Satin "Limestone" CSMU with Treatments



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

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

Satin "Montecito" CSMU	
Untreated Control	50 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:14)	60 mph
Sure Klean® Weather Seal Natural Stone Treatment WB	60 mph

Satin "Montecito" CSMU with Treatments



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

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

Satin "Mountain Ridge" CSMU	
Untreated Control	49 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:14)	60 mph
Sure Klean® Weather Seal Natural Stone Treatment WB	60 mph

Satin "Mountain Ridge" CSMU with Treatments



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

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

Satin "Sunset" CSMU	
Untreated Control	55 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:14)	60 mph
Sure Klean® Weather Seal Natural Stone Treatment WB	60 mph

Satin "Sunset" CSMU with Treatments

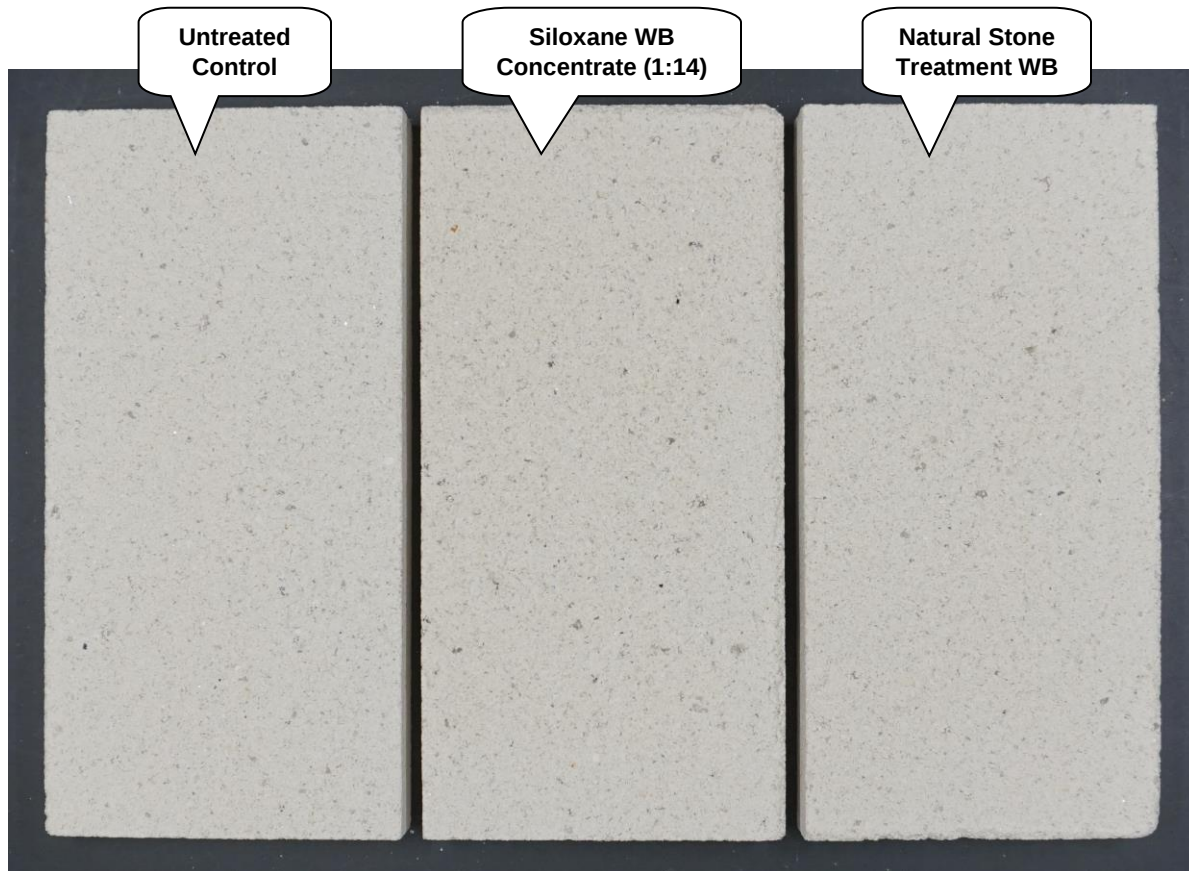


TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

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

Satin "Tan" CSMU	
Untreated Control	54 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:14)	60 mph
Sure Klean® Weather Seal Natural Stone Treatment WB	60 mph

Satin "Tan" CSMU with Treatments



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

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

Smooth "Café" CSMU	
Untreated Control	55 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:14)	60 mph
Sure Klean® Weather Seal Natural Stone Treatment WB	60 mph

Smooth "Café" CSMU with Treatments



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

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

Smooth "Ginger" CSMU	
Untreated Control	55 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:14)	60 mph
Sure Klean® Weather Seal Natural Stone Treatment WB	60 mph

Smooth "Ginger" CSMU with Treatments



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

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

Smooth "Magnolia" CSMU	
Untreated Control	58 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:14)	60 mph
Sure Klean® Weather Seal Natural Stone Treatment WB	60 mph

Smooth "Magnolia" CSMU with Treatments



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

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

Smooth "Oak Ridge" CSMU	
Untreated Control	57 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:14)	60 mph
Sure Klean® Weather Seal Natural Stone Treatment WB	60 mph

Smooth "Oak Ridge" CSMU with Treatments



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

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

Smooth "Red Rock" CSMU	
Untreated Control	55 mph
Sure Klean® Weather Seal Siloxane WB Concentrate (1:14)	60 mph
Sure Klean® Weather Seal Natural Stone Treatment WB	60 mph

Smooth "Red Rock" CSMU with Treatments



CONCLUSIONS: Protective Water Repellents

Based on the laboratory evaluations, both of the treatments provided good water repellent protection to the submitted samples.

Neither Sure Klean® Weather Seal Siloxane WB Concentrate nor Sure Klean® Weather Seal Natural Stone Treatment WB resulted in any change in appearance to the submitted CSMU.

RECOMMENDATIONS: Protective Water Repellents

Recommendations for water repellency for each type of CSMU submitted by Arriscraft, Fort Valley, GA are provided in the chart below. Recommendations are based on the treatment(s) that proved most effective.

Sample	Water Repellency
Rocked "Limestone" CSMU	Sure Klean® Weather Seal Siloxane WB Concentrate (1:14) OR Sure Klean® Weather Seal Natural Stone Treatment WB
Satin "Basalt" CSMU	
Satin "Champagne" CSMU	
Satin "Limestone" CSMU	
Satin "Montecito" CSMU	
Satin "Mountain Ridge" CSMU	
Satin "Sunset" CSMU	
Satin "Tan" CSMU	
Smooth "Café" CSMU	
Smooth "Ginger" CSMU	
Smooth "Magnolia" CSMU	
Smooth "Oak Ridge" CSMU	
Smooth "Red Rock" CSMU	

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 treatment and procedure for a particular project. See product literature for additional application and product information.



J. Lucas Comadoll
Chemist

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.