

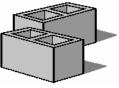
PROSOCO, Inc.

TABLE OF CONTENTS – CMU's	
Submitted Information	1
Purpose of Testing	2
Products Evaluated	3
New Construction Cleaning	
Description of Products Evaluated – New Construction Cleaning	
Test Method – New Construction Cleaning	
Test Results – New Construction Cleaning	
Test Results – Color Uniformity	
Photographs – New Construction Cleaning	
Photographs – Color Uniformity	
Conclusions – New Construction Cleaning	
Recommendations – New Construction Cleaning	
Protective Water Repellents	
Description of Products Evaluated – Protective Water Repellents	
Sample Preparation – Protective Water Repellents	
Test Methods – Protective Water Repellents	
Test Results – Protective Water Repellents	
Photographs – Protective Water Repellents	
Conclusions – Protective Water Repellents	
Recommendations – Protective Water Repellents	
Graffiti Control	27
Description of Products Evaluated – Graffiti Control	27
Sample Preparation – Graffiti Control	28
Test Method – Graffiti Control	
Test Results – Graffiti Control	
Photographs – Graffiti Control	
Conclusions – Graffiti Control	
Recommendations – Graffiti Control	

ATTACHMENTS

Technical Services TECH Note RILEM Tube Test Procedures Product Data literature for all products evaluated





PROSOCO, Inc.

Page 1

Submitted Information

For:	Thomas Lane
CC:	John Bourne

Jolley Concrete & Block Subject: Danielson, CT

Date:

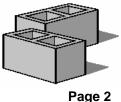
Project: 0506-23 PTP

Samples Submitted: 26 types of integrally colored CMU's: 23 types of split-face, 2 types of rough-face, and 1 type of smooth-face

Block	Name	Color	Integral Water Repellent	Size
Split-face	"008"	Dark Gray	Unknown	8" x 16" x 8"
Split-face	"060"	Light Brown	Unknown	8" x 16" x 8"
Split-face	"063"	Beige	Unknown	8" x 16" x 8"
Split-face	"103"	Light Gray	Unknown	8" x 16" x 12"
Split-face	"106"	Light Beige	Unknown	8" x 16" x 4"
Split-face	"120"	White	Unknown	8" x 16" x 4"
Split-face	"127"	Light Gray	Unknown	8" x 16" x 4"
Split-face	"205"	Beige	Unknown	8" x 16" x 4"
Split-face	"209"	Dark Orange	Unknown	8" x 16" x 4"
Split-face	"29"	Orange	Unknown	8" x 16" x 4"
Split-face	"30N"	Tan	Unknown	8" x 16" x 4"
Steel Shot Blasted	"34"	Gray	Unknown	8" x 10" x 4"
Split-face	"490"	Dark Red	Unknown	8" x 16" x 4"
Split-face	"532"	Cream	Unknown	8" x 16" x 4"
Split-face	"57"	Red	Unknown	8" x 16" x 8"
Split-face	"70"	Light Brown	Unknown	8" x 16" x 8"
Steel Shot Blasted	"70D"	Tan	Unknown	8" x 16" x 4"
Split-face	"75"	Dark Gray	Unknown	8" x 16" x 8"
Split-face	"78"	Red	Unknown	8" x 16" x 8"
Split-face	"79"	Dark Brown	Unknown	8" x 16" x 8"
Split-face	"81"	Gray	Unknown	8" x 16" x 8"
Split-face	"85"	Yellow	Unknown	8" x 16" x 8"
Smooth-face	"86"	Brown	Unknown	8" x 16" x 8"
Split-face	"87"	Tan	Unknown	8" x 16" x 8"
Split-face	"89"	Light Brown	Unknown	8" x 16" x 8"
Split-face	"99A"	Dark Red	Unknown	8" x 16" x 8"

Submitted by: Joseph Talecki





Purpose of Testing

Twenty-six types of integrally colored CMU's, all with large, small and fine aggregate were submitted for testing using PROSOCO's new construction cleaning, water repellent, and graffiti control products.

New Construction Cleaning – Sure Klean[®] Custom Masonry Cleaner was evaluated to determine the optimal concentration of cleaner for removal of laboratory applied mortar which also leaves the external surface looking most like the natural through-body color of the CMU.

To simulate new construction soiling all concrete masonry units (CMU's) are placed on a bench with finished surface facing upward. Hollow cylinders measuring 50 mm in diameter and 75 mm tall are positioned on top of each CMU and filled with a wet mixture of Type S mortar. The wet, mortar-filled cylinder is allowed to remain in contact with the CMU for 10 minutes before removal.

Heavy deposits of mortar are removed with dry scraping after 24 hours. Prepared cleaning solutions are then evaluated for their effectiveness in removing residual Type S mortar staining after 3 days, 7 days, and 14 days of curing.

Color uniformity was evaluated by comparing aggregate exposure and surface pigment alternation/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 **Worst** match to through-body
- 3 **Good** match to through-body 1 – **Poor** match to through-body
- 4 **Best** match to through-body
- 2 **Fair** match to through-body

NOTE: When cleaning integrally colored CMU's.

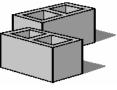
Integrally colored concrete masonry units (CMU's) frequently have high amounts of pigment concentrated on the surface of the cured concrete unit. Variation of surface pigment concentrations from one CMU to the next creates a blotchy appearance in the completed wall. Allowed to remain on the surface of 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.

Protective Water Repellents – Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control and Sure Klean[®] Weather Seal Siloxane WB Concentrate were evaluated for their ability to provide water repellency to the submitted samples.

Graffiti Control - Sure Klean® Weather Seal Blok-Guard® & Graffiti Control was evaluated for its ability to control graffiti on the submitted samples. Sure Klean[®] Fast Acting Stripper and Defacer Eraser[®] Graffiti Wipe were evaluated for their ability to remove graffiti from the submitted samples.





Page 3

Products Evaluated

Products Evaluated for Cleaning and Color Uniformity

Sample	Product	Dilution
All Submitted CMU's	Sure Klean [®] Custom Masonry Cleaner	1:2, 1:4, 1:6

Water Repellent Products Evaluated

Sample	Product	Dilution
All Submitted CMU's	Sure Klean [®] Weather Seal Blok-Guard [®] & Graffiti Control	Concentrate
All Submitted Civilo's	Sure Klean [®] Weather Seal Siloxane WB Concentrate	1:9

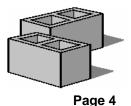
Graffiti Control Products Evaluated

Sample	Product	Dilution
All Submitted CMU's	Sure Klean [®] Weather Seal Blok-Guard [®] & Graffiti Control	Concentrate

Graffiti Removal Products Evaluated

Sample	Product	Dilution
All Submitted CMU's	Sure Klean [®] Fast Acting Stripper	Concentrate
All Submitted Civio's	Defacer Eraser [®] Graffiti Wipe	Concentrate





New Construction Cleaning

These cleaning trials were conducted to determine the optimal cleaning/cure time combination to most efficiently remove Type S mortar from the submitted CMU's while providing the best color uniformity when compared to the through-body color of the CMU's.

Type S mortar was prepared in compliance with the manufacturer's instructions, applied to the CMU surface and allowed to cure for 3, 7, and 14 days. Mortar removal was accomplished using chemical assistance and a high-pressure water rinse with pressure rinsing equipment. The removal of Type S masonry mortar was visually evaluated after 3, 7, and 14 days of curing. A visual examination was also made to determine the optimal dilution of the tested cleaners that provide the best color uniformity when compared to the throughbody color of the CMU's.

Description of Products Evaluated – New Construction Cleaning

Sure Klean[®] **Custom Masonry Cleaner** – A general purpose, concentrated acidic cleaner for most custom masonry and colored concrete. Removes concrete splashes, excess mortar, mud, heavy efflorescence and surface soiling, leaving the masonry clean and uniform with no acid burning or streaking. Liquid concentrate for dilution with 2-6 parts water. Apply by brush or low-pressure spray.

Test Method – New Construction Cleaning

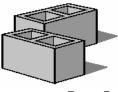
Dilution ratios refer to mixtures of parts concentrated cleaner: parts fresh water. Chemical cleaners were evaluated using the following procedure:

- 1. Pre-wet the surface with water.
- 2. Apply at the appropriate dilutions.
- 3. Allow appropriate dwell time, as specified.

- 4. Reapply the product and moderately agitate with a brush.
- 5. Pressure rinse thoroughly.*
- 6. Allow the sample to dry for at least 18 hours and visually examine.
- 7. Break the sample in half and compare the through-body surfaces to the cleaned surfaces for the best match.

***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.





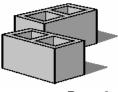
Page 5

Test Results - New Construction Cleaning

<u>% removal</u>

"008" Sp	lit-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	95%	95%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	95%	95%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	95%	85%
	lit-face CMU	-	-	
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	98%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	95%	95%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	95%	90%
"063" Sp	lit-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	100%	100%
"103" Sp	lit-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	100%	100%
"106" Sp	lit-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	100%	100%
"120" Sp	lit-face CMU		-	-
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	100%	100%
"127" Sp	lit-face CMU			<u> </u>
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	100%	100%
-	lit-face CMU		-	
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	100%	100%





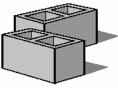
Page 6

Test Results - New Construction Cleaning

<u>% removal</u>

"209" Sp	lit-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	100%	100%
"29" Spl	it-face CMU	-	-	
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	100%	100%
"30N" Sp	lit-face CMU	-	-	-
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	100%	100%
"34" "Steel Sh	not Blasted"	CMU		
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	100%	100%
"490" Sp	lit-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	95%	85%
"532" Sp	lit-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	100%	100%
"57" Spl	it-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	98%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	95%	95%
Sure Klean [®] Custom Masonry Cleaner	1:6	95%	90%	90%
"70" Spl	it-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	100%	100%





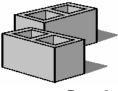
Page 7

Test Results – New Construction Cleaning

<u>% removal</u>

"70D" "Steel S	hot Blasted"	CMU		
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	100%	100%
	it-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	98%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	98%
Sure Klean [®] Custom Masonry Cleaner	1:6	98%	98%	95%
"78" Spl	it-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	95%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	98%	95%
"79" Spl	it-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	98%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	98%	95%
"81" Spl	it-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	100%	100%
"85" Spl	it-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	100%	100%
"86" Smo	oth-face CM	J		
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	100%	100%
"87" Spl	it-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	100%	100%





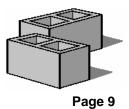
Page 8

Test Results - New Construction Cleaning

<u>% removal</u>

"89" Spl	it-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	100%	100%
"99A" Sp	lit-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean [®] Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean [®] Custom Masonry Cleaner	1:4	100%	100%	98%
Sure Klean [®] Custom Masonry Cleaner	1:6	100%	100%	98%





Test Results - Color Uniformity

Substrate: Split-face CMU	Pigment	Color: "008"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean [®] Custom Masonry Cleaner	1:2	4	4
Sure Klean [®] Custom Masonry Cleaner	1:4	4	4
Sure Klean [®] Custom Masonry Cleaner	1:6	4	4
Substrate: Split-face CMU	Pigment	Color: "060"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean [®] Custom Masonry Cleaner	1:2	4	4
Sure Klean [®] Custom Masonry Cleaner	1:4	4	4
Sure Klean [®] Custom Masonry Cleaner	1:6	4	4
Substrate: Split-face CMU	Pigment	Color: "063"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean [®] Custom Masonry Cleaner	1:2	4	4
Sure Klean [®] Custom Masonry Cleaner	1:4	4	4
Sure Klean [®] Custom Masonry Cleaner	1:6	4	4
Substrate: Split-face CMU	Pigment	Color: "103"	
	righten	COIDI. 103	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
· ·		Aggregate	
Product	Dilution	Aggregate Exposure	Alteration/Removal
Product Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2	Aggregate Exposure 4	Alteration/Removal
Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2 1:4 1:6	Aggregate Exposure 4 4	Alteration/Removal 4 4
Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2 1:4 1:6	Aggregate Exposure 4 4 4 4	Alteration/Removal 4 4
Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Split-face CMU Product	Dilution 1:2 1:4 1:6 Pigment	Aggregate Exposure 4 4 4 Color: "106" Aggregate	Alteration/Removal 4 4 4 Surface Pigment
Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Split-face CMU	Dilution 1:2 1:4 1:6 Pigment Dilution	Aggregate Exposure 4 4 4 Color: "106" Aggregate Exposure	Alteration/Removal 4 4 4 Surface Pigment Alteration/Removal
Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Split-face CMU Product Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2 1:4 1:6 Pigment Dilution 1:2	Aggregate Exposure 4 4 Color: "106" Aggregate Exposure 4	Alteration/Removal 4 4 4 4 4 Surface Pigment Alteration/Removal 4
Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Split-face CMU Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2 1:4 1:6 Pigment Dilution 1:2 1:4 1:6	Aggregate Exposure 4 4 4 Color: "106" Aggregate Exposure 4 4	Alteration/Removal 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Split-face CMU Product Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2 1:4 1:6 Pigment Dilution 1:2 1:4 1:6	Aggregate Exposure 4 4 4 Color: "106" Aggregate Exposure 4 4 4	Alteration/Removal 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Split-face CMU Product Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2 1:4 1:6 Pigment Dilution 1:2 1:4 1:6 Pigment	Aggregate Exposure 4 4 4 Color: "106" Aggregate Exposure 4 4 4 Color: "120" Aggregate	Alteration/Removal 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Split-face CMU Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2 1:4 1:6 Pigment Dilution 1:2 1:4 1:6 Pigment 1:6 Dilution 1:2 1:4 1:6 Pigment Dilution	Aggregate Exposure 4 4 Color: "106" Aggregate Exposure 4 4 4 Color: "120" Aggregate Exposure	Alteration/Removal 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

Scale used for reporting results of both categories

0 – **Worst** match to through-body

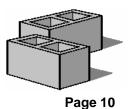
3-Good match to through-body

1 – **Poor** match to through-body

4 – **Best** match to through-body

2 – **Fair** match to through-body





Test Results - Color Uniformity

Substrate: Split-face CMU	Pigment	: Color: "127"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean [®] Custom Masonry Cleaner	1:2	4	4
Sure Klean [®] Custom Masonry Cleaner	1:4	4	4
Sure Klean [®] Custom Masonry Cleaner	1:6	4	4
Substrate: Split-face CMU	Pigment	Color: "205"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean [®] Custom Masonry Cleaner	1:2	4	4
Sure Klean [®] Custom Masonry Cleaner	1:4	4	4
Sure Klean [®] Custom Masonry Cleaner	1:6	4	4
Substrate: Split-face CMU	Pigment	Color: "209"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean [®] Custom Masonry Cleaner	1:2	4	4
Sure Klean [®] Custom Masonry Cleaner	1:4	4	4
Sure Klean [®] Custom Masonry Cleaner	1:6	4	4
Substrate: Split-face CMU	Pigment Color: "29"		
ounstrate. Opin-lace Olvio	Pigment	Color: "29"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Product		Aggregate	
	Dilution	Aggregate Exposure	Alteration/Removal
Product Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2	Aggregate Exposure 4	Alteration/Removal
Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2 1:4 1:6	Aggregate Exposure 4 4	Alteration/Removal 4 4
Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2 1:4 1:6	Aggregate Exposure 4 4 4 4	Alteration/Removal 4 4
Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Split-face CMU Product	Dilution 1:2 1:4 1:6 Pigment	Aggregate Exposure 4 4 4 Color: "30N" Aggregate	Alteration/Removal 4 4 4 Surface Pigment
Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Split-face CMU	Dilution 1:2 1:4 1:6 Pigment Dilution	Aggregate Exposure 4 4 4 Color: "30N" Aggregate Exposure	Alteration/Removal 4 4 4 Surface Pigment Alteration/Removal
Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Split-face CMU Product Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2 1:4 1:6 Pigment Dilution 1:2	Aggregate Exposure 4 4 Color: "30N" Aggregate Exposure 4	Alteration/Removal 4 4 4 4 4 Surface Pigment Alteration/Removal 4 4
Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Split-face CMU Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2 1:4 1:6 Pigment Dilution 1:2 1:4 1:6	Aggregate Exposure 4 4 4 Color: "30N" Aggregate Exposure 4 4	Alteration/Removal 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Split-face CMU Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2 1:4 1:6 Pigment Dilution 1:2 1:4 1:6	Aggregate Exposure 4 4 4 Color: "30N" Aggregate Exposure 4 4 4	Alteration/Removal 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Split-face CMU Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2 1:4 1:6 Pigment Dilution 1:2 1:4 1:6 Pigment	Aggregate Exposure 4 4 5 Color: "30N" Aggregate Exposure 4 4 4 4 5 Color: "34"	Alteration/Removal 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Split-face CMU Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2 1:4 1:6 Pigment Dilution 1:2 1:4 1:6 Pigment 1:2 1:4 1:6 Dilution 1:2 1:4 1:6 Pigment Dilution	Aggregate Exposure 4 4 Color: "30N" Aggregate Exposure 4 4 4 Color: "34" Aggregate Exposure	Alteration/Removal 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

Scale used for reporting results of both categories

0 – **Worst** match to through-body

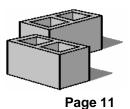
3 – **Good** match to through-body

1 – **Poor** match to through-body

4 – **Best** match to through-body

2 – **Fair** match to through-body





Test Results - Color Uniformity

Substrate: Split-face CMU	Pigment	Color: "490"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean [®] Custom Masonry Cleaner	1:2	4	4
Sure Klean [®] Custom Masonry Cleaner	1:4	4	4
Sure Klean [®] Custom Masonry Cleaner	1:6	4	4
Substrate: Split-face CMU	Pigment	Color: "532"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean [®] Custom Masonry Cleaner	1:2	4	4
Sure Klean [®] Custom Masonry Cleaner	1:4	4	4
Sure Klean [®] Custom Masonry Cleaner	1:6	4	4
Substrate: Split-face CMU	Pigment	Color: "57"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean [®] Custom Masonry Cleaner	1:2	4	4
Sure Klean [®] Custom Masonry Cleaner	1:4	4	4
Sure Klean [®] Custom Masonry Cleaner	1:6	4	4
Substrate: Split-face CMU	Pigment Color: "70"		
	-		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Product Sure Klean [®] Custom Masonry Cleaner		Aggregate	
	Dilution	Aggregate Exposure	Alteration/Removal
Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2	Aggregate Exposure 4	Alteration/Removal
Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2 1:4 1:6	Aggregate Exposure 4 4	Alteration/Removal 4 4
Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2 1:4 1:6	Aggregate Exposure 4 4 4 4	Alteration/Removal 4 4
Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: "Steel Shot Blasted" CMU Product	Dilution 1:2 1:4 1:6 Pigment	Aggregate Exposure 4 4 4 Color: "70D" Aggregate	Alteration/Removal 4 4 4 Surface Pigment
Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: "Steel Shot Blasted" CMU	Dilution 1:2 1:4 1:6 Pigment Dilution	Aggregate Exposure 4 4 4 Color: "70D" Aggregate Exposure	Alteration/Removal 4 4 4 4 Surface Pigment Alteration/Removal
Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: "Steel Shot Blasted" CMU Product Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2 1:4 1:6 Pigment Dilution 1:2	Aggregate Exposure 4 4 Color: "70D" Aggregate Exposure 4	Alteration/Removal 4 4 4 4 4 Surface Pigment Alteration/Removal 4 4
Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: "Steel Shot Blasted" CMU Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner	Dilution 1:2 1:4 1:6 Pigment Dilution 1:2 1:4 1:6	Aggregate Exposure 4 4 4 Color: "70D" Aggregate Exposure 4 4	Alteration/Removal 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: "Steel Shot Blasted" CMU Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean[®] Custom Masonry Cleaner Substrate: Split-face CMU Product	Dilution 1:2 1:4 1:6 Pigment Dilution 1:2 1:4 1:6	Aggregate Exposure 4 4 Color: "70D" Aggregate Exposure 4 4 4	Alteration/Removal 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: "Steel Shot Blasted" CMU Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean[®] Custom Masonry Cleaner Substrate: Split-face CMU Product	Dilution 1:2 1:4 1:6 Pigment Dilution 1:2 1:4 1:6 Pigment	Aggregate Exposure 4 4 Color: "70D" Aggregate Exposure 4 4 4 Color: "75" Aggregate	Alteration/Removal 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: "Steel Shot Blasted" CMU Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean[®] Custom Masonry Cleaner	Dilution 1:2 1:4 1:6 Pigment Dilution 1:2 1:4 Dilution 1:2 1:4 Dilution 1:2 1:4 1:6 Pigment Dilution	Aggregate Exposure 4 4 Color: "70D" Aggregate Exposure 4 4 4 Color: "75" Aggregate Exposure	Alteration/Removal 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

Scale used for reporting results of both categories

0 – **Worst** match to through-body

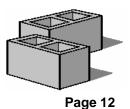
3- **Good** match to through-body

1 – **Poor** match to through-body

4 – **Best** match to through-body

2 – **Fair** match to through-body





Test Results - Color Uniformity

Substrate: Split-face CMU	Pigment	: Color: "78"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean [®] Custom Masonry Cleaner	1:2	4	4
Sure Klean [®] Custom Masonry Cleaner	1:4	4	4
Sure Klean [®] Custom Masonry Cleaner	1:6	4	4
Substrate: Split-face CMU	Pigment	Color: "79"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean [®] Custom Masonry Cleaner	1:2	4	4
Sure Klean [®] Custom Masonry Cleaner	1:4	4	4
Sure Klean [®] Custom Masonry Cleaner	1:6	4	4
Substrate: Split-face CMU	Pigment	: Color: "81"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean [®] Custom Masonry Cleaner	1:2	4	4
Sure Klean [®] Custom Masonry Cleaner	1:4	4	4
Sure Klean [®] Custom Masonry Cleaner	1:6	4	4
Substrate: Split-face CMU	Pigment Color: "85"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
	Dilution 1:2		
Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner		Exposure	Alteration/Removal
Sure Klean [®] Custom Masonry Cleaner	1:2	Exposure 4	Alteration/Removal
Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner	1:2 1:4 1:6	Exposure 4 4	Alteration/Removal 4 4
Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner	1:2 1:4 1:6	Exposure 4 4 4	Alteration/Removal 4 4
Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Smooth-face CMU Product	1:2 1:4 1:6 Pigment	Exposure 4 4 4 Color: "86" Aggregate	Alteration/Removal 4 4 4 Surface Pigment
Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Smooth-face CMU Product Sure Klean [®] Custom Masonry Cleaner	1:2 1:4 1:6 Pigment Dilution	Exposure 4 4 Color: "86" Aggregate Exposure	Alteration/Removal 4 4 4 5 5 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Smooth-face CMU Product	1:2 1:4 1:6 Pigment Dilution	Exposure 4 4 Color: "86" Aggregate Exposure 4	Alteration/Removal 4 4 4 4 4 Surface Pigment Alteration/Removal 4 4
Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Smooth-face CMU Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner	1:2 1:4 1:6 Pigment Dilution 1:2 1:4 1:6	Exposure 4 4 Color: "86" Aggregate Exposure 4 4	Alteration/Removal 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Smooth-face CMU Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner	1:2 1:4 1:6 Pigment Dilution 1:2 1:4 1:6	Exposure 4 4 Color: "86" Aggregate Exposure 4 4 3	Alteration/Removal 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Smooth-face CMU Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean[®] Custom Masonry Cleaner Substrate: Split-face CMU Product	1:2 1:4 1:6 Pigment Dilution 1:2 1:4 1:6 Pigment	Exposure 4 4 Color: "86" Aggregate Exposure 4 4 3 Color: "87" Aggregate	Alteration/Removal 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Substrate: Smooth-face CMU Product Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean [®] Custom Masonry Cleaner Sure Klean[®] Custom Masonry Cleaner	1:2 1:4 1:6 Pigment Dilution 1:2 1:4 1:6 Pigment Dilution	Exposure 4 4 5 Color: "86" Aggregate Exposure 4 4 4 3 5 Color: "87" Aggregate Exposure	Alteration/Removal 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

Scale used for reporting results of both categories

0 – **Worst** match to through-body

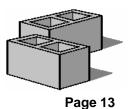
3 – **Good** match to through-body

1 – **Poor** match to through-body

4 – **Best** match to through-body

2 – **Fair** match to through-body





Test Results - Color Uniformity

Substrate: Split-face CMU	Pigment	: Color: "89"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean [®] Custom Masonry Cleaner	1:2	4	4
Sure Klean [®] Custom Masonry Cleaner	1:4	4	4
Sure Klean [®] Custom Masonry Cleaner	1:6	4	4
Substrate: Split-face CMU	Pigment	: Color: "99A"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean [®] Custom Masonry Cleaner	1:2	4	4
Sure Klean [®] Custom Masonry Cleaner	1:4	4	4
Sure Klean [®] Custom Masonry Cleaner	1:6	4	4

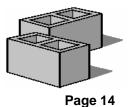
Scale used for reporting results of both categories

- 0 **Worst** match to through-body
- 3 Good match to through-body

- 1 **Poor** match to through-body
- 4 **Best** match to through-body

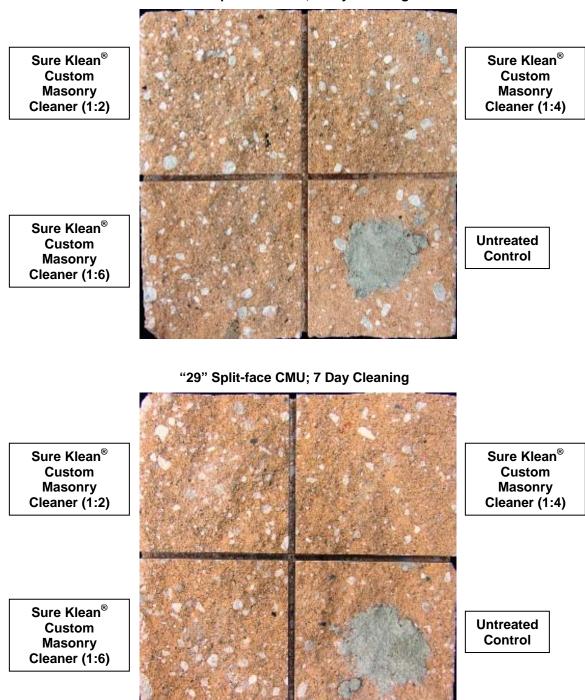
2 - Fair match to through-body



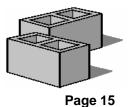


Photographs – New Construction Cleaning

"29" Split-face CMU; 3 Day Cleaning

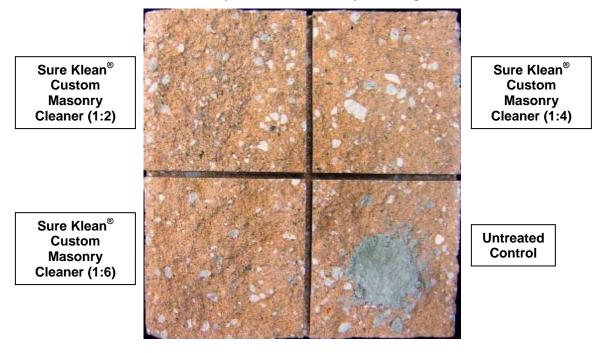






Photographs – New Construction Cleaning

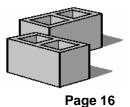
"29" Split-face CMU; 14 Day Cleaning



"86" Smooth-face CMU; 3 Day Cleaning

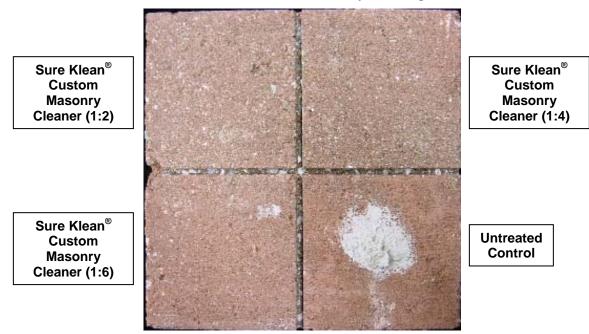






Photographs – New Construction Cleaning

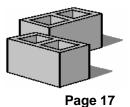
"86" Smooth-face CMU; 7 Day Cleaning



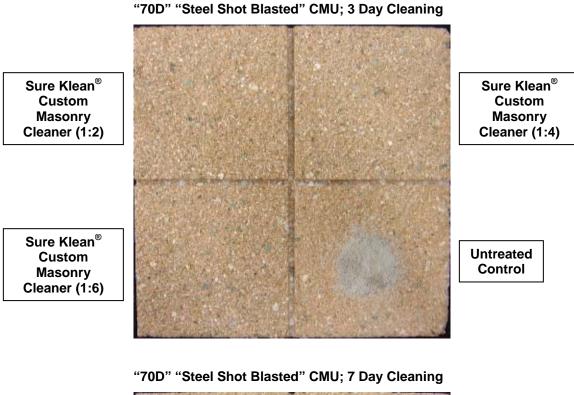
"86" Smooth-face CMU; 14 Day Cleaning





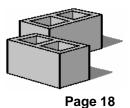


Photographs – New Construction Cleaning









Photographs – New Construction Cleaning



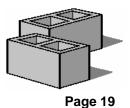
Sure Klean[®] Custom Masonry Cleaner (1:6)

Photographs – Color Uniformity

"29" Split-face CMU; Through-body

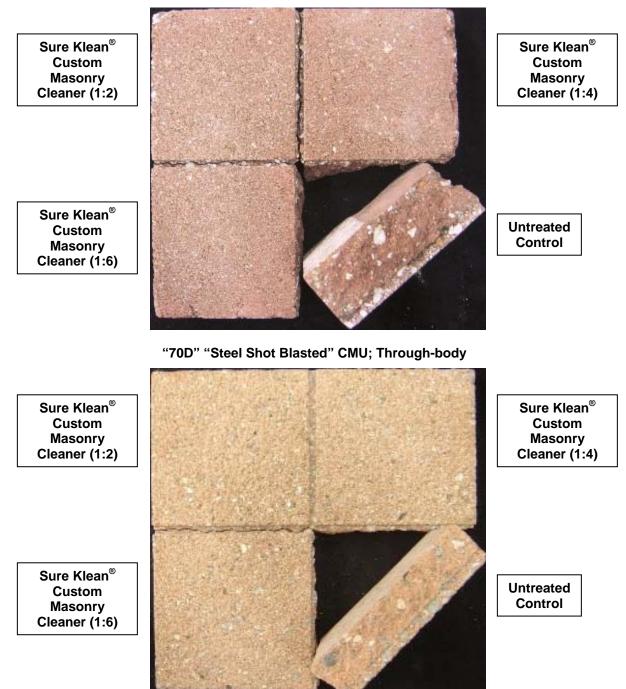




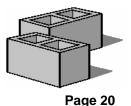


Photographs - Color Uniformity

"86" Smooth-face CMU; Through-body







Conclusions – New Construction Cleaning

Based on the test data, all of the submitted samples were efficiently cleaned with a dilution of Sure Klean[®] Custom Masonry Cleaner. Use higher concentrations and surface agitation to maximize aggregate exposure. Use low concentration and surface agitation to minimize aggregate exposure.

<u>Recommendations</u> – New Construction Cleaning

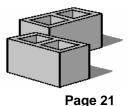
Recommendations for cleaning for each type of CMU submitted by Jolley Concrete & Block, Danielson, CT are provided in the chart below. Recommendations are based on the optimum dilution for complete removal of mortar while providing the best match to the through-body color of the CMU's.

Sample	New Construction Cleaning (Type S mortar, 14 day cleaning)
All Submitted CMU's	Sure Klean [®] Custom Masonry Cleaner (1:2) OR (1:4) OR (1:6)

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.





Protective Water Repellents

The testing described below evaluates the suitability of water repellent treatments.

The surface treatments evaluated were selected for their suitability for application based on the following selection criteria:

- 1. Weatherproofing properties
- 2. Color change
- 3. Ease of application

Description of Products Evaluated – Protective Water Repellents

Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control – A clear, solvent-based silicone elastomer formulated to weatherproof concrete block and other porous masonry materials. Blok-Guard[®] & Graffiti Control protects masonry surfaces from repeated graffiti attacks without altering the natural appearance. Blok-Guard[®] & Graffiti Control penetrates and fills pores to prevent water penetration through exterior walls exposed to normal weathering. Graffiti removal is fast and easy using Defacer Eraser[®] Graffiti Wipe. Blok-Guard[®] & Graffiti Control is easy to apply with low-pressure spray, brush or roller.

Sure Klean[®] Weather Seal Siloxane WB Concentrate – A self-emulsifying water repellent concentrate designed for dilution with fresh water at the job site. This solvent-free blend of silanes and oligomeric alkoxysiloxanes mixes easily with water to produce a penetrating water repellent ideal for application to dense or porous masonry surfaces.

Sample Preparation – Protective Water Repellents

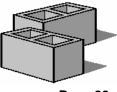
The submitted blocks were scored, allowed to dry, and to reabsorb atmospheric humidity for 24 hours prior to treatment. Both treatments were applied by a wet-on-wet brushing application and allowed to cure for at least 24 hours in accordance with the PROSOCO, Inc. 2005 Product Guide instructions.

<u>Test Methods</u> – 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. See Technical Services TECH Note RILEM Tube Test Procedures.





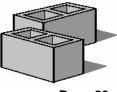
Page 22

Test Results - Protective Water Repellents

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

	RESULTS
"008" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	59 mph
"060" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	59 mph
"063" Split-face CMU	
Untreated Control	56 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	60 mph
"103" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	60 mph
"106" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	60 mph
"120" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	59 mph
"127" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	59 mph
"205" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	59 mph
Siloxane WB Concentrate (1:9)	59 mph
"209" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	60 mph





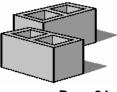
Page 23

Test Results - Protective Water Repellents

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

	RESULTS
"29" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	59 mph
Siloxane WB Concentrate (1:9)	58 mph
"30N" Split-face CMU	
Untreated Control	45 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	60 mph
"34" "Steel Shot Blasted" CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	60 mph
"490" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	59 mph
Siloxane WB Concentrate (1:9)	59 mph
"532" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	59 mph
"57" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	60 mph
"70" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	59 mph
"70D" "Steel Shot Blasted" CMU	
Untreated Control	58 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	60 mph
"75" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	60 mph





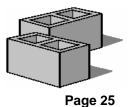
Page 24

Test Results - Protective Water Repellents

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

	RESULTS
"78" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	60 mph
"79" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	60 mph
"81" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	59 mph
"85"Split-face CMU	
Untreated Control	51 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	60 mph
"86" Smooth-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	60 mph
"87" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	59 mph
Siloxane WB Concentrate (1:9)	57 mph
"89" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Siloxane WB Concentrate (1:9)	60 mph
"99A" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	59 mph
Siloxane WB Concentrate (1:9)	58 mph



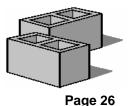


Photographs - Protective Water Repellents

"103" Split-face CMU; RILEM Testing







Conclusions – Protective Water Repellents

Based upon laboratory evaluations, both Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control and Sure Klean[®] Weather Seal Siloxane WB Concentrate diluted with nine parts water provided excellent water repellency to each of the submitted samples. In addition, Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control provided slight color enhancement to the submitted samples. Sure Klean[®] Weather Seal Siloxane WB Concentrate diluted with nine parts water in any way.

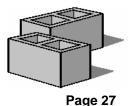
<u>Recommendations</u> – Protective Water Repellents

Recommendations for water repellency treatment for each type of CMU submitted by Jolley Concrete & Block, Danielson, CT are provided in the chart below. Recommendations are based on the treatment that proved most effective at providing water repellency on all types submitted.

Sample	Water Repellents		
All Submitted CMU's	Sure Klean [®] Weather Seal Blok-Guard [®] & Graffiti Control OR Sure Klean [®] Weather Seal Siloxane WB Concentrate (1:9)		

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 water repellent product and procedures for a particular project. See product literature for additional application and product information.





Graffiti Control

These trials were conducted to determine the optimal graffiti control treatment for the submitted concrete block samples.

Description of Products Evaluated – Graffiti Control

Graffiti Control Treatments

Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control – A clear, solvent-based silicone elastomer formulated to weatherproof concrete block and other porous masonry materials. Blok-Guard[®] & Graffiti Control protects masonry surfaces from repeated graffiti attacks without altering the natural appearance. Blok-Guard[®] & Graffiti Control penetrates and fills pores to prevent water penetration through exterior walls exposed to normal weathering. Graffiti removal is fast and easy using Defacer Eraser[®] Graffiti Wipe. Blok-Guard[®] & Graffiti Control is easy to apply with low-pressure spray, brush or roller.

Products Evaluated for Graffiti Removal

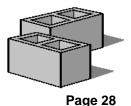
Defacer Eraser[®] **Graffiti Wipe** – An easy-to-use graffiti remover that does not contain methanol, methylene chloride or other halogenated solvents prohibited on many projects. Graffiti Wipe removes a variety of graffiti stains from most smooth masonry, split-face concrete block, wood and metal surfaces.

Sure Klean[®] Fast Acting Stripper – A thixotropic stripping compound formulated specifically for removal of high strength paints and coatings such as epoxies, polyurethanes, and floor enamels. Additionally, Fast Acting Stripper dissolves most spray paints, marking pens, lacquers and other graffiti.

Graffiti Agents

Interior/Exterior Spray Paint (Red) Permanent Marker (Green) Permanent Marker (Red) Permanent Marker (Black)





Sample Preparation – Graffiti Control

This evaluation compares the effectiveness of the treatments tested to the untreated surfaces of the submitted samples in preventing staining of enamel spray paint and permanent markers.

Sections of the concrete block samples were treated with Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control in a wet-on-wet brushing application in accordance with the PROSOCO, Inc. Product Data Sheet application instructions and then allowed to cure for at least one day. At the end of the cure period, a visual adverse effects evaluation was made and then the graffiti agents were applied to the substrates.

Spray paint and markers were applied as graffiti agents to all treated surfaces no sooner than one day following application of Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control. Removal of the graffiti agents was attempted 24 hours after application of the graffiti agents, using Defacer Eraser[®] Graffiti Wipe and Sure Klean[®] Fast Acting Stripper.

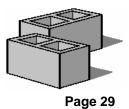
Test Method – Graffiti Control

Chemical cleaners were evaluated using the following procedure:

- 1. Apply the product to a dry surface, soiled with graffiti.
- 3. Pressure 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.

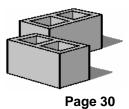




Test Results – Graffiti Control

	"	008" Split-face	CMU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	85%	100%	70%	90%	86%
Graffiti Wipe	80%	30%	70%	90%	68%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	100%	100%	100%	98%
Graffiti Wipe	90%	100%	100%	100%	98%
	"	060" Split-face	CMU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	85%	95%	30%	50%	65%
Graffiti Wipe	50%	30%	30%	70%	45%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	100%	98%	99%	97%
Graffiti Wipe	90%	100%	98%	95%	96%
	"	063" Split-face	CMU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	80%	90%	10%	30%	53%
Graffiti Wipe	80%	10%	10%	30%	33%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	90%	95%	95%
Graffiti Wipe	99%	100%	90%	95%	96%
	"	103" Split-face	CMU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	85%	85%	20%	30%	55%
Graffiti Wipe	85%	20%	20%	20%	36%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	95%	90%	95%	93%
Graffiti Wipe	90%	90%	90%	95%	91%
	"	106" Split-face	CMU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	80%	40%	10%	20%	38%
Graffiti Wipe	50%	10%	10%	20%	23%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	85%	95%	95%	95%	93%
Graffiti Wipe	95%	95%	95%	95%	95%

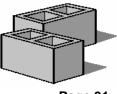




<u>Test Results</u> – Graffiti Control

	"	120" Split-face	CMU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	60%	40%	10%	30%	35%
Graffiti Wipe	60%	10%	10%	30%	28%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	90%	80%	90%	88%
Graffiti Wipe	90%	90%	80%	80%	85%
	"	127" Split-face	CMU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	75%	80%	20%	40%	54%
Graffiti Wipe	50%	30%	20%	40%	35%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	100%	90%	85%	91%
Graffiti Wipe	90%	90%	90%	85%	89%
	"	205" Split-face	CMU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	85%	85%	10%	10%	48%
Graffiti Wipe	90%	20%	10%	10%	33%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	95%	90%	90%	91%
Graffiti Wipe	95%	95%	90%	90%	93%
	"	209" Split-face	CMU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	80%	60%	40%	68%
Graffiti Wipe	90%	40%	30%	40%	50%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	98%	100%	100%	100%	100%
Graffiti Wipe	98%	100%	98%	100%	99%
		29" Split-face	СМИ	•	
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	60%	80%	10%	10%	40%
Graffiti Wipe	50%	10%	10%	10%	20%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Remova
Fast Acting Stripper	90%	90%	70%	90%	85%
Graffiti Wipe	95%	90%	70%	80%	84%



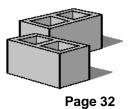


Page 31

Test Results – Graffiti Control

		30N" Split-face	CMU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	80%	85%	10%	30%	51%
Graffiti Wipe	80%	10%	10%	30%	33%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	95%	80%	95%	91%
Graffiti Wipe	99%	95%	80%	90%	91%
	"34" "	Steel Shot Bla	sted" CMU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	95%	40%	80%	76%
Graffiti Wipe	90%	20%	40%	80%	58%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	100%	98%	98%	97%
Graffiti Wipe	90%	95%	98%	98%	95%
	"	490" Split-face	CMU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	95%	40%	80%	76%
Graffiti Wipe	70%	20%	40%	80%	53%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	98%	98%	98%
Graffiti Wipe	90%	98%	98%	98%	96%
	"	532" Split-face	CMU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	70%	30%	10%	10%	30%
Graffiti Wipe	30%	10%	10%	10%	15%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	98%	98%	98%	99%	98%
Graffiti Wipe	90%	90%	95%	95%	93%
	61	57" Split-face	СМИ		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	90%	20%	90%	73%
Graffiti Wipe	50%	10%	20%	90%	43%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	100%	100%	100%	100%	100%
Graffiti Wipe	100%	90%	100%	100%	98%

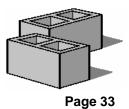




<u>Test Results</u> – Graffiti Control

	61	70" Split-face	СМИ		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	70%	90%	10%	20%	48%
Graffiti Wipe	40%	10%	10%	10%	18%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Remova
Fast Acting Stripper	95%	100%	95%	98%	97%
Graffiti Wipe	95%	100%	95%	95%	96%
	"70D" '	Steel Shot Bla	sted" CMU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Remova
Fast Acting Stripper	85%	95%	80%	90%	88%
Graffiti Wipe	90%	50%	80%	70%	73%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Remova
Fast Acting Stripper	98%	99%	90%	99%	97%
Graffiti Wipe	98%	99%	90%	95%	96%
		75" Split-face	СМИ		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Remova
Fast Acting Stripper	80%	90%	70%	70%	78%
Graffiti Wipe	60%	10%	10%	70%	38%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Remova
Fast Acting Stripper	95%	100%	90%	90%	94%
Graffiti Wipe	95%	100%	90%	90%	94%
		78" Split-face	СМИ		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Remova
Fast Acting Stripper	85%	95%	10%	30%	55%
Graffiti Wipe	75%	90%	10%	10%	46%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Remova
Fast Acting Stripper	95%	100%	90%	100%	96%
Graffiti Wipe	95%	100%	90%	100%	96%
		79" Split-face	СМИ		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Remova
Fast Acting Stripper	85%	90%	10%	30%	54%
Graffiti Wipe	80%	10%	10%	30%	33%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Remova
Fast Acting Stripper	95%	100%	100%	95%	98%
Graffiti Wipe	100%	100%	95%	95%	98%

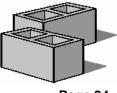




Test Results – Graffiti Control

	6	'81" Split-face	СМИ		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	85%	90%	20%	30%	56%
Graffiti Wipe	30%	10%	20%	30%	23%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	95%	98%	95%	95%
Graffiti Wipe	85%	90%	98%	95%	92%
		85" Split-face	СМИ		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	80%	90%	10%	30%	53%
Graffiti Wipe	90%	30%	10%	30%	40%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	90%	90%	94%
Graffiti Wipe	100%	100%	90%	90%	95%
	"8	6" Smooth-fac	e CMU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	85%	90%	40%	60%	69%
Graffiti Wipe	85%	30%	90%	60%	66%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	95%	95%	96%
Graffiti Wipe	100%	80%	95%	95%	93%
		87" Split-face	СМИ		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	80%	20%	40%	58%
Graffiti Wipe	90%	10%	20%	40%	40%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	99%	100%	95%	95%	97%
Graffiti Wipe	95%	80%	95%	95%	91%
		89" Split-face	СМИ		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	80%	90%	30%	40%	60%
Graffiti Wipe	70%	10%	10%	10%	25%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Remova
Fast Acting Stripper	90%	98%	95%	95%	95%
Graffiti Wipe	90%	95%	95%	90%	93%



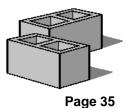


Page 34

Test Results – Graffiti Control

"99A" Split-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	70%	95%	20%	30%	54%
Graffiti Wipe	30%	10%	20%	30%	23%
Blok-Guard [®] & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	98%	100%	100%	99%	99%
Graffiti Wipe	98%	100%	100%	98%	99%



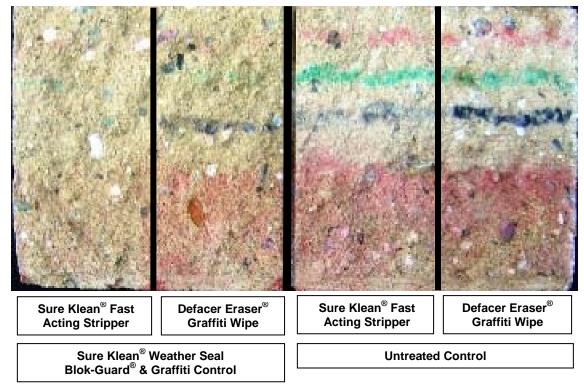


Photographs – Graffiti Control

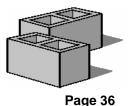




"87" Split-face CMU; After Graffiti Removal







Conclusions - Graffiti Control

Based upon laboratory evaluations, graffiti removal was improved when the submitted samples were treated with Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control prior to graffiti application. In addition, Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control provided a slight color enhancement to the submitted samples.

Recommendations – Graffiti Control

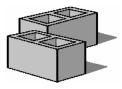
Recommendations for graffiti control treatment for each type of CMU submitted by Jolley Concrete & Block, Danielson, CT are provided in the chart below. Recommendations are based on the treatment that proved most effective for providing graffiti repellency and the product that was most effective at removing the graffiti on all types submitted.

Sample	Graffiti Repellents	Graffiti Removers		
All Submitted CMU's	Sure Klean [®] Weather Seal Blok-Guard [®] & Graffiti Control	Defacer Eraser [®] Graffiti Wipe OR Sure Klean [®] Fast Acting Stripper		

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.

Christopher A. Moore Project Testing Laboratory Technician

CAM



Laboratory Report

Pallet Tag Program Evaluation

Jolley Concrete & Block Danielson, CT

Project No. 0506-23 PTP

Prepared For:

Jolley Concrete & Block 47 Junior Ave Danielson, CT 06239

Prepared By:

PROSOCO, Inc. August 2005