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Attachments

 Technical Services TECH Note RILEM Tube Test Procedures

 Product Data literature for all products evaluated

Submitted Information

For: Gene Bollinger
cc: Paul Tessier

Subject: Kanta Products, Inc.
 Three Forks, MT

Date:

Project: 0604-02 PTP

Samples Submitted: 6 types of integrally colored CMU's, each with a split-face, smooth-face, and ground-face side

Sample	Name	Color	Integral Water Repellent	Size
Split-face CMU	"Black"	Dark Gray	None	8" x 16" x 8"
Smooth-face CMU	"Black"	Dark Gray	None	8" x 16" x 8"
Ground-face CMU	"Black"	Dark Gray	None	8" x 16" x 8"
Split-face CMU	"Buff"	Yellow	None	8" x 16" x 8"
Smooth-face CMU	"Buff"	Yellow	None	8" x 16" x 8"
Ground-face CMU	"Buff"	Yellow	None	8" x 16" x 8"
Split-face CMU	"Golden Rod"	Orange	None	8" x 16" x 8"
Smooth-face CMU	"Golden Rod"	Orange	None	8" x 16" x 8"
Ground-face CMU	"Golden Rod"	Orange	None	8" x 16" x 8"
Split-face CMU	"Kanta Brown"	Brown	None	8" x 16" x 8"
Smooth-face CMU	"Kanta Brown"	Brown	None	8" x 16" x 8"
Ground-face CMU	"Kanta Brown"	Brown	None	8" x 16" x 8"
Split-face CMU	"Natural"	Gray	None	8" x 16" x 8"
Smooth-face CMU	"Natural"	Gray	None	8" x 16" x 8"
Ground-face CMU	"Natural"	Gray	None	8" x 16" x 8"
Split-face CMU	"Old Red"	Red	None	8" x 16" x 8"
Smooth-face CMU	"Old Red"	Red	None	8" x 16" x 8"
Ground-face CMU	"Old Red"	Red	None	8" x 16" x 8"

Submitted by: Gene Bollinger

Introduction

Architectural Materials Testing (AMT) Laboratories is a Boyer Industries company that provides laboratory testing and consulting services for the construction industry. Laboratory testing includes evaluating chemical cleaning products and protective treatments for a variety of new and existing architectural materials.

This report includes descriptions of the PROSOCO, Inc. products and test methods that were used. Following test results and conclusions, the report provides recommendations for the most effective products and procedures.

Purpose of Testing

Six types of integrally colored CMU's, each with a split-face, smooth-face, and ground-face side, all with large, small and fine aggregate were submitted for testing to AMT Laboratories by PROSOCO, Inc. to determine the optimum cleaning/cure time combination for complete removal of mortar and related new construction soiling. The effectiveness of protective water repellents, graffiti control, and color/sheen enhancement products suitable for CMU's was also evaluated.

New Construction Cleaning – Sure Klean® Custom Masonry Cleaner and Sure Klean® Burnished Custom Masonry Cleaner were 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 samples were placed on a bench with finished surface facing upward. Hollow cylinders measuring 50 mm in diameter and 75 mm tall were positioned on top of each sample and filled with a wet mixture of Type S mortar. The wet, mortar-filled cylinder was allowed to remain in contact with the samples for 10 minutes before removal.

Heavy deposits of mortar were removed with dry scraping after 24 hours. Prepared cleaning solutions were 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 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 – 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 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.

Protective Water Repellents – Sure Klean® Weather Seal Blok-Guard® & Graffiti Control, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II 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 and Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II were evaluated for their 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.

Color and Sheen Enhancement – Stand Off® Gloss 'N Guard WB was evaluated for its ability to provide color and sheen enhancement to the submitted samples.

Products Evaluated

New Construction Cleaning Products Evaluated

Sample	Product	Dilution
All Submitted Split-face and Smooth-face CMU's	Sure Klean® Custom Masonry Cleaner	1:2, 1:4, 1:6
	Sure Klean® Burnished Custom Masonry Cleaner	1:2, 1:3
All Submitted Ground-face CMU's	Sure Klean® Burnished Custom Masonry Cleaner	1:2, 1:3

Protective Water Repellent Products Evaluated

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

Graffiti Removal Products Evaluated

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

Color and Sheen Enhancement Products Evaluated

Sample	Product	Dilution
All Submitted Ground-face CMU's	Stand Off® Gloss 'N Guard WB	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 samples while providing the best color uniformity when compared to the through-body color of the submitted 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.

Sure Klean® Burnished Custom Masonry Cleaner – Removes common construction and atmospheric staining from custom masonry and other architectural concrete surfaces. This general-purpose, non-etching, acidic cleaner removes rust, mud, oil, atmospheric dirt, mortar smears and other stains without altering the surface texture. Burnished Custom Masonry Cleaner adds depth to colors and brightens white matrices and exposed aggregate.

Sample Preparation – New Construction Cleaning

Type S mortar was prepared in compliance with the manufacturer's instructions, applied to the samples 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 through-body color of the CMU's.

Test Method – New Construction Cleaning

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.

Sure Klean® Custom Masonry Cleaner.....	3 minutes
Sure Klean® Burnished Custom Masonry Cleaner	3-5 minutes
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.

Test Results – New Construction Cleaning**Cleaning Effectiveness (% Type S Mortar Removal)**

“Black” Split-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%	98%	98%
Sure Klean® Custom Masonry Cleaner	1:6	100%	98%	90%
Sure Klean® Burnished Custom Masonry Cleaner	1:2	85%	80%	70%
Sure Klean® Burnished Custom Masonry Cleaner	1:3	85%	80%	70%
“Black” Smooth-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%
Sure Klean® Burnished Custom Masonry Cleaner	1:2	100%	99%	99%
Sure Klean® Burnished Custom Masonry Cleaner	1:3	100%	98%	95%
“Black” Ground-face CMU				
Product	Dilution	3 day	7 day	14 day
Sure Klean® Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean® Burnished Custom Masonry Cleaner	1:3	100%	100%	100%
“Buff” Split-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%
Sure Klean® Burnished Custom Masonry Cleaner	1:2	90%	85%	80%
Sure Klean® Burnished Custom Masonry Cleaner	1:3	90%	80%	80%
“Buff” Smooth-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%
Sure Klean® Burnished Custom Masonry Cleaner	1:2	99%	99%	99%
Sure Klean® Burnished Custom Masonry Cleaner	1:3	98%	95%	95%
“Buff” Ground-face CMU				
Product	Dilution	3 day	7 day	14 day
Sure Klean® Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean® Burnished Custom Masonry Cleaner	1:3	100%	100%	100%
“Golden Rod” Split-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%	98%
Sure Klean® Burnished Custom Masonry Cleaner	1:2	90%	80%	80%
Sure Klean® Burnished Custom Masonry Cleaner	1:3	90%	80%	70%

Test Results – New Construction Cleaning**Cleaning Effectiveness (% Type S Mortar Removal)**

“Golden Rod” Smooth-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%
Sure Klean® Burnished Custom Masonry Cleaner	1:2	100%	100%	98%
Sure Klean® Burnished Custom Masonry Cleaner	1:3	98%	98%	95%
“Golden Rod” Ground-face CMU				
Product	Dilution	3 day	7 day	14 day
Sure Klean® Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean® Burnished Custom Masonry Cleaner	1:3	100%	100%	100%
“Kanta Brown” Split-face CMU				
Product	Dilution	3 day	7 day	14 day
Sure Klean® Custom Masonry Cleaner	1:2	100%	98%	98%
Sure Klean® Custom Masonry Cleaner	1:4	100%	98%	98%
Sure Klean® Custom Masonry Cleaner	1:6	100%	98%	95%
Sure Klean® Burnished Custom Masonry Cleaner	1:2	80%	80%	70%
Sure Klean® Burnished Custom Masonry Cleaner	1:3	80%	80%	70%
“Kanta Brown” Smooth-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%
Sure Klean® Burnished Custom Masonry Cleaner	1:2	100%	99%	99%
Sure Klean® Burnished Custom Masonry Cleaner	1:3	100%	99%	98%
“Kanta Brown” Ground-face CMU				
Product	Dilution	3 day	7 day	14 day
Sure Klean® Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean® Burnished Custom Masonry Cleaner	1:3	100%	100%	100%
“Natural” Split-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%
Sure Klean® Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean® Burnished Custom Masonry Cleaner	1:3	100%	100%	100%
“Natural” Smooth-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%
Sure Klean® Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean® Burnished Custom Masonry Cleaner	1:3	100%	100%	100%

Test Results – New Construction Cleaning**Cleaning Effectiveness (% Type S Mortar Removal)**

“Natural” Ground-face CMU				
Product	Dilution	3 day	7 day	14 day
Sure Klean® Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean® Burnished Custom Masonry Cleaner	1:3	100%	100%	100%
“Old Red” Split-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%	99%	99%
Sure Klean® Burnished Custom Masonry Cleaner	1:2	95%	90%	80%
Sure Klean® Burnished Custom Masonry Cleaner	1:3	80%	80%	80%
“Old Red” Smooth-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%	98%	98%
Sure Klean® Custom Masonry Cleaner	1:6	100%	98%	98%
Sure Klean® Burnished Custom Masonry Cleaner	1:2	100%	99%	98%
Sure Klean® Burnished Custom Masonry Cleaner	1:3	98%	98%	98%
“Old Red” Ground-face CMU				
Product	Dilution	3 day	7 day	14 day
Sure Klean® Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean® Burnished Custom Masonry Cleaner	1:3	100%	100%	100%

Test Results – Color Uniformity

Substrate: Split-face CMU		Pigment Color: “Black”		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
Sure Klean® Custom Masonry Cleaner	1:2	3	3	
Sure Klean® Custom Masonry Cleaner	1:4	3	3	
Sure Klean® Custom Masonry Cleaner	1:6	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:2	2	2	
Sure Klean® Burnished Custom Masonry Cleaner	1:3	2	2	
Substrate: Smooth-face CMU		Pigment Color: “Black”		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
Sure Klean® Custom Masonry Cleaner	1:2	2	2	
Sure Klean® Custom Masonry Cleaner	1:4	2	2	
Sure Klean® Custom Masonry Cleaner	1:6	3	3	
Sure Klean® Burnished Custom Masonry Cleaner	1:2	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:3	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: Ground-face CMU	Pigment Color: "Black"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean® Burnished Custom Masonry Cleaner	1:2	4	4
Sure Klean® Burnished Custom Masonry Cleaner	1:3	4	4
Substrate: Split-face CMU	Pigment Color: "Buff"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean® Custom Masonry Cleaner	1:2	3	3
Sure Klean® Custom Masonry Cleaner	1:4	3	3
Sure Klean® Custom Masonry Cleaner	1:6	4	4
Sure Klean® Burnished Custom Masonry Cleaner	1:2	3	3
Sure Klean® Burnished Custom Masonry Cleaner	1:3	3	3
Substrate: Smooth-face CMU	Pigment Color: "Buff"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean® Custom Masonry Cleaner	1:2	3	3
Sure Klean® Custom Masonry Cleaner	1:4	3	3
Sure Klean® Custom Masonry Cleaner	1:6	3	3
Sure Klean® Burnished Custom Masonry Cleaner	1:2	4	4
Sure Klean® Burnished Custom Masonry Cleaner	1:3	4	4
Substrate: Ground-face CMU	Pigment Color: "Buff"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean® Burnished Custom Masonry Cleaner	1:2	4	4
Sure Klean® Burnished Custom Masonry Cleaner	1:3	4	4
Substrate: Split-face CMU	Pigment Color: "Golden Rod"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean® Custom Masonry Cleaner	1:2	3	3
Sure Klean® Custom Masonry Cleaner	1:4	3	3
Sure Klean® Custom Masonry Cleaner	1:6	4	4
Sure Klean® Burnished Custom Masonry Cleaner	1:2	2	2
Sure Klean® Burnished Custom Masonry Cleaner	1:3	2	2
Substrate: Smooth-face CMU	Pigment Color: "Golden Rod"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean® Custom Masonry Cleaner	1:2	2	2
Sure Klean® Custom Masonry Cleaner	1:4	2	2
Sure Klean® Custom Masonry Cleaner	1:6	3	3
Sure Klean® Burnished Custom Masonry Cleaner	1:2	4	4
Sure Klean® Burnished Custom Masonry Cleaner	1:3	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: Ground-face CMU		Pigment Color: “Golden Rod”		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
Sure Klean® Burnished Custom Masonry Cleaner	1:2	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:3	4	4	
Substrate: Split-face CMU		Pigment Color: “Kanta Brown”		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
Sure Klean® Custom Masonry Cleaner	1:2	3	3	
Sure Klean® Custom Masonry Cleaner	1:4	3	3	
Sure Klean® Custom Masonry Cleaner	1:6	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:2	2	2	
Sure Klean® Burnished Custom Masonry Cleaner	1:3	2	2	
Substrate: Smooth-face CMU		Pigment Color: “Kanta Brown”		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
Sure Klean® Custom Masonry Cleaner	1:2	2	2	
Sure Klean® Custom Masonry Cleaner	1:4	2	2	
Sure Klean® Custom Masonry Cleaner	1:6	3	3	
Sure Klean® Burnished Custom Masonry Cleaner	1:2	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:3	4	4	
Substrate: Ground-face CMU		Pigment Color: “Kanta Brown”		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
Sure Klean® Burnished Custom Masonry Cleaner	1:2	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:3	4	4	
Substrate: Split-face CMU		Pigment Color: “Natural”		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
Sure Klean® Custom Masonry Cleaner	1:2	3	3	
Sure Klean® Custom Masonry Cleaner	1:4	3	3	
Sure Klean® Custom Masonry Cleaner	1:6	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:2	3	3	
Sure Klean® Burnished Custom Masonry Cleaner	1:3	3	3	
Substrate: Smooth-face CMU		Pigment Color: “Natural”		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
Sure Klean® Custom Masonry Cleaner	1:2	2	2	
Sure Klean® Custom Masonry Cleaner	1:4	2	2	
Sure Klean® Custom Masonry Cleaner	1:6	3	3	
Sure Klean® Burnished Custom Masonry Cleaner	1:2	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:3	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: Ground-face CMU		Pigment Color: "Natural"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
Sure Klean® Burnished Custom Masonry Cleaner	1:2	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:3	4	4	
Substrate: Split-face CMU		Pigment Color: "Old Red"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
Sure Klean® Custom Masonry Cleaner	1:2	3	3	
Sure Klean® Custom Masonry Cleaner	1:4	3	3	
Sure Klean® Custom Masonry Cleaner	1:6	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:2	3	3	
Sure Klean® Burnished Custom Masonry Cleaner	1:3	3	3	
Substrate: Smooth-face CMU		Pigment Color: "Old Red"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
Sure Klean® Custom Masonry Cleaner	1:2	2	2	
Sure Klean® Custom Masonry Cleaner	1:4	2	2	
Sure Klean® Custom Masonry Cleaner	1:6	2	2	
Sure Klean® Burnished Custom Masonry Cleaner	1:2	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:3	4	4	
Substrate: Ground-face CMU		Pigment Color: "Old Red"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
Sure Klean® Burnished Custom Masonry Cleaner	1:2	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:3	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

“Old Red” Split-face CMU; 3 Day Cleaning

**Sure Klean®
Custom Masonry
Cleaner (1:2)**

**Sure Klean®
Custom Masonry
Cleaner (1:4)**

**Sure Klean®
Custom Masonry
Cleaner (1:6)**

**Untreated
Control**

**Sure Klean®
Burnished
Custom Masonry
Cleaner (1:2)**

**Sure Klean®
Burnished
Custom Masonry
Cleaner (1:3)**



Photographs – New Construction Cleaning

“Old Red” Split-face CMU; 7 Day Cleaning

**Sure Klean®
Custom Masonry
Cleaner (1:2)**

**Sure Klean®
Custom Masonry
Cleaner (1:4)**

**Sure Klean®
Custom Masonry
Cleaner (1:6)**

**Untreated
Control**

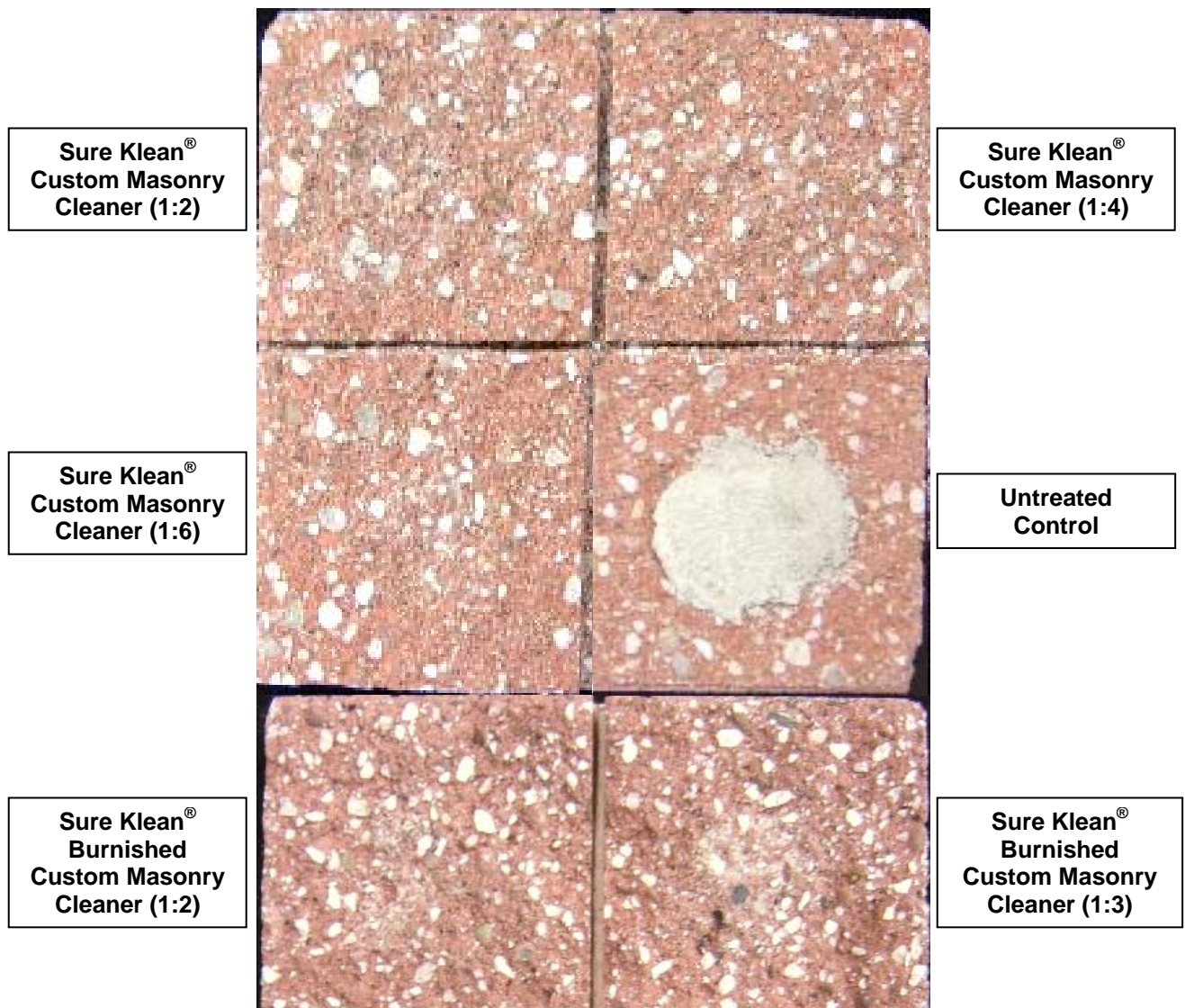
**Sure Klean®
Burnished
Custom Masonry
Cleaner (1:2)**

**Sure Klean®
Burnished
Custom Masonry
Cleaner (1:3)**



Photographs – New Construction Cleaning

“Old Red” Split-face CMU; 14 Day Cleaning



Photographs – New Construction Cleaning

“Old Red” Smooth-face CMU; 3 Day Cleaning

**Sure Klean®
Custom Masonry
Cleaner (1:2)**

**Sure Klean®
Custom Masonry
Cleaner (1:4)**

**Sure Klean®
Custom Masonry
Cleaner (1:6)**

**Untreated
Control**

**Sure Klean®
Burnished
Custom Masonry
Cleaner (1:2)**

**Sure Klean®
Burnished
Custom Masonry
Cleaner (1:3)**



Photographs – New Construction Cleaning

“Old Red” Smooth-face CMU; 7 Day Cleaning

**Sure Klean®
Custom Masonry
Cleaner (1:2)**

**Sure Klean®
Custom Masonry
Cleaner (1:4)**

**Sure Klean®
Custom Masonry
Cleaner (1:6)**

**Untreated
Control**

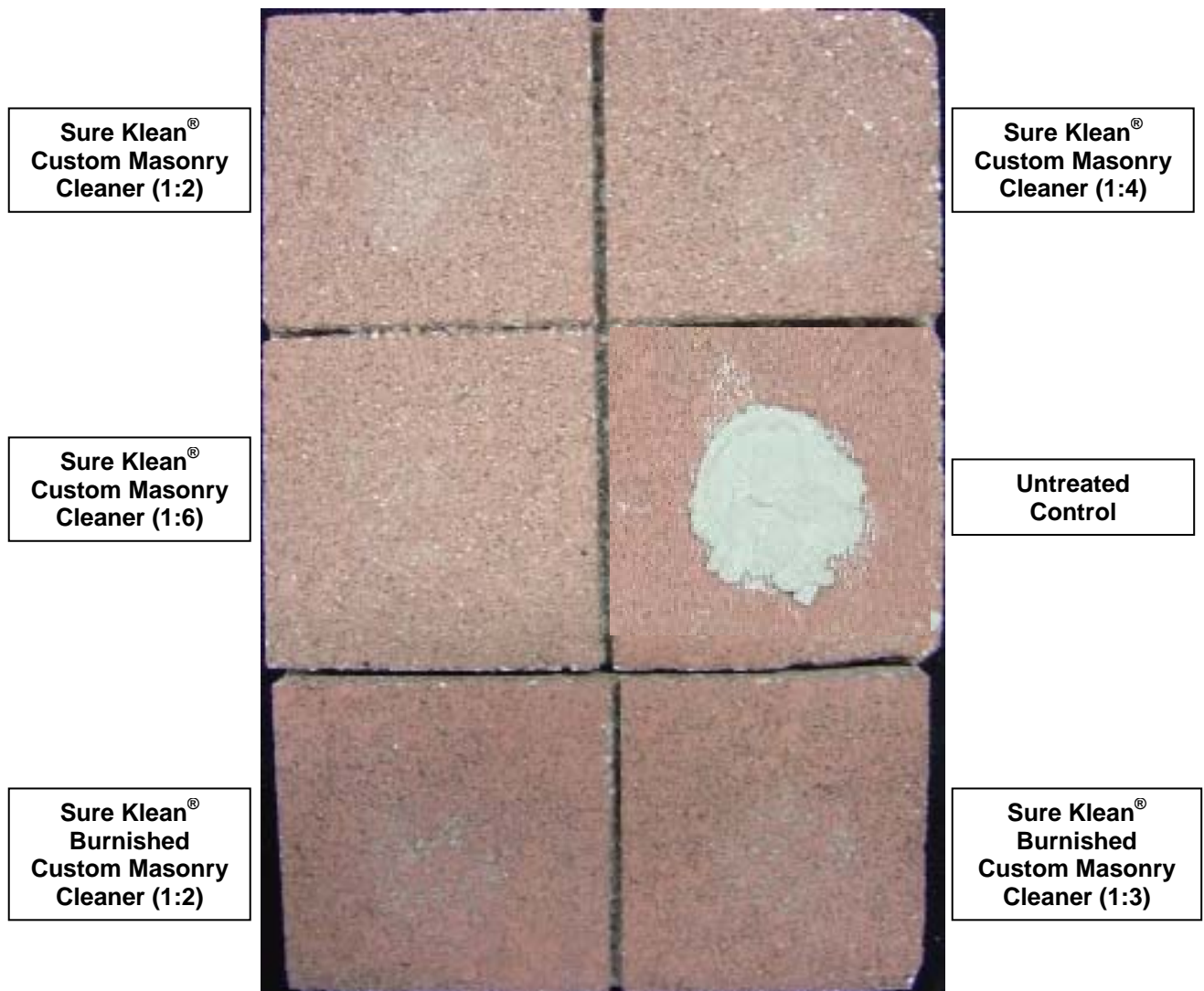
**Sure Klean®
Burnished
Custom Masonry
Cleaner (1:2)**

**Sure Klean®
Burnished
Custom Masonry
Cleaner (1:3)**



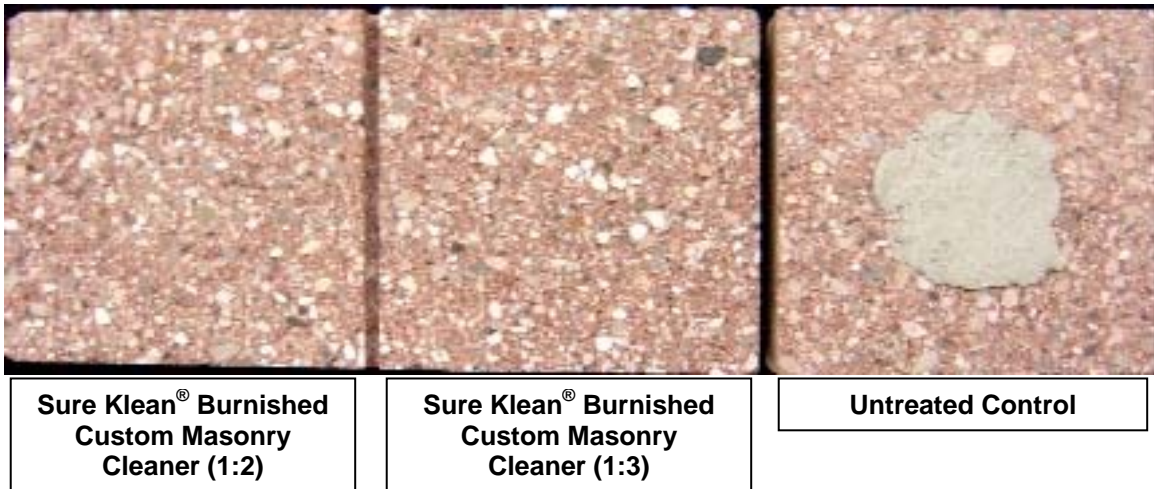
Photographs – New Construction Cleaning

“Old Red” Smooth-face CMU; 14 Day Cleaning



Photographs – New Construction Cleaning

“Old Red” Ground-face CMU; 3 Day Cleaning



“Old Red” Ground-face CMU; 7 Day Cleaning



“Old Red” Ground-face CMU; 14 Day Cleaning



Photographs – Color Uniformity

“Old Red” Split-face CMU; Color Uniformity

**Sure Klean®
Custom Masonry
Cleaner (1:2)**

**Sure Klean®
Custom Masonry
Cleaner (1:4)**

**Sure Klean®
Custom Masonry
Cleaner (1:6)**

Through-body

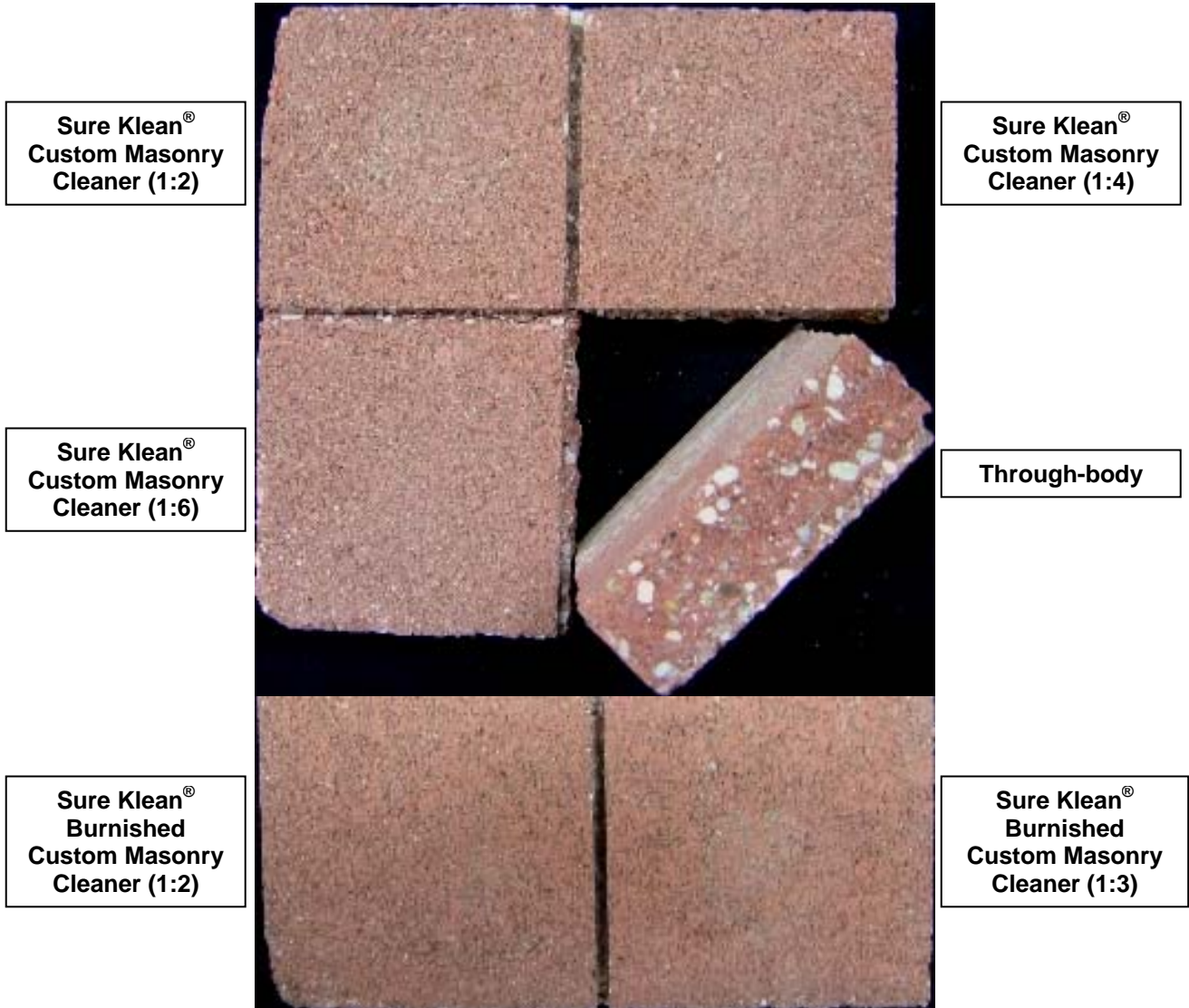
**Sure Klean®
Burnished
Custom Masonry
Cleaner (1:2)**

**Sure Klean®
Burnished
Custom Masonry
Cleaner (1:3)**



Photographs – Color Uniformity

“Old Red” Smooth-face CMU; Color Uniformity



“Old Red” Ground-face CMU; Color Uniformity



Conclusions – New Construction Cleaning

Based on the test data, all of the submitted CMU's were efficiently cleaned with at least one dilution of Sure Klean® Custom Masonry Cleaner or Sure Klean® Burnished Custom Masonry Cleaner.

In the lab tests conducted, Sure Klean® Burnished Custom Masonry Cleaner did not remove as much mortar as Sure Klean® Custom Masonry Cleaner from the surface of the split-face CMU's and is therefore not recommended for new construction cleaning on these substrates.

All dilutions of Sure Klean® Custom Masonry Cleaner removed moderate to significant amounts of surface pigment from the surface of the smooth-face CMU's, exposing aggregate and altering the color of the surface samples when compared to the through-body.

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

Recommendations – New Construction Cleaning

Recommendations for cleaning for each type of CMU submitted by Kanta Products, Inc., Three Forks, MT 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 Split-face CMU's	Sure Klean® Custom Masonry Cleaner (1:6)
All Submitted Smooth-face CMU's	Sure Klean® Burnished Custom Masonry Cleaner (1:3)
All Submitted Ground-face CMU's	Sure Klean® Burnished Custom Masonry Cleaner (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.

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 Blok-Guard® & Graffiti Control II – A clear-drying, water-based silicone emulsion for weatherproofing concrete block and other porous masonry materials. Blok-Guard® & Graffiti Control II also protects masonry surfaces from graffiti attacks without altering the natural appearance. Blok-Guard® & Graffiti Control II protects exterior walls exposed to normal weathering. Graffiti removal from treated surfaces is fast and easy using Defacer Eraser® Graffiti Wipe. Blok-Guard® & Graffiti Control II 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 alkoxy siloxanes 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 samples were scored and allowed to dry for 24 hours prior to treatment. All of the products were applied by brush in accordance with the current PROSOCO, Inc. Product Data Sheet application instructions. All 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. See Technical Services TECH Note RILEM Tube Test Procedures.

Test Results – Protective Water Repellents**Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes**

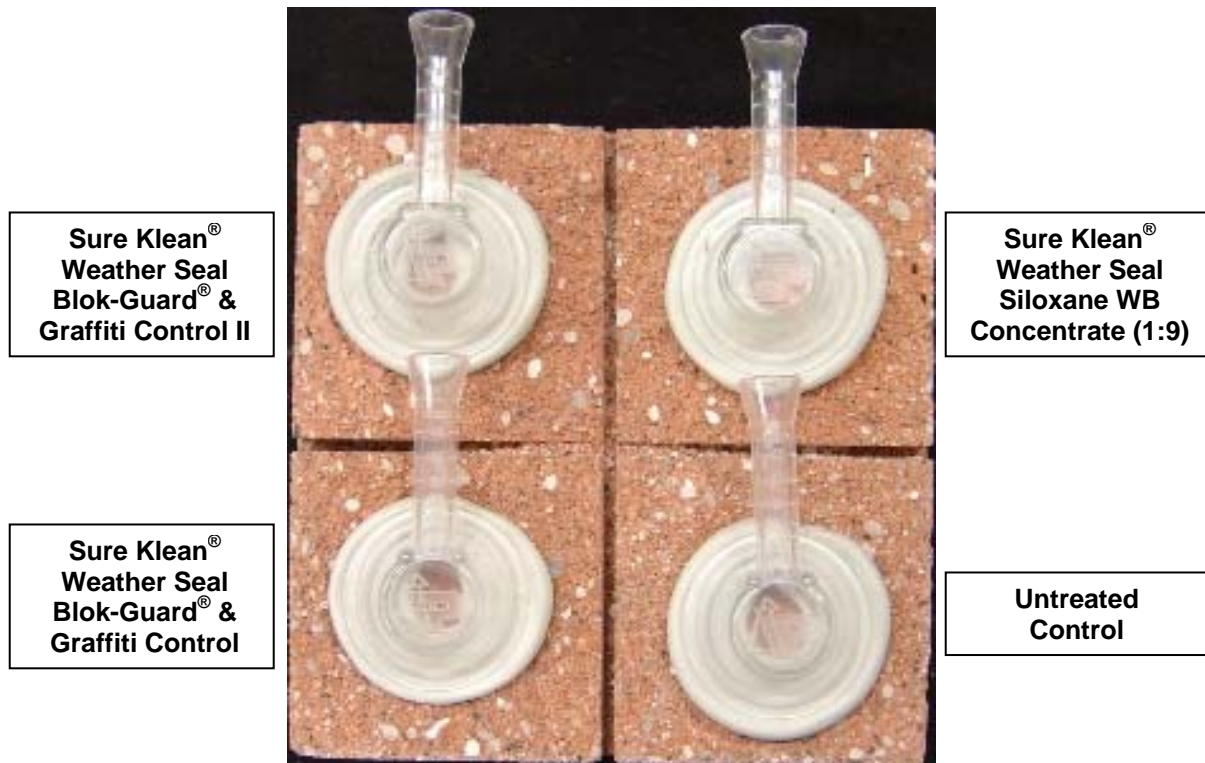
RESULTS	
“Black” Split-face CMU	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	58 mph
Sure Klean® Weather Seal Siloxane WB (1:9)	58 mph
“Black” Smooth-face CMU	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	58 mph
Sure Klean® Weather Seal Siloxane WB (1:9)	60 mph
“Black” Ground-face CMU	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	60 mph
Sure Klean® Weather Seal Siloxane WB (1:9)	60 mph
“Buff” Split-face CMU	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	59 mph
Sure Klean® Weather Seal Siloxane WB (1:9)	59 mph
“Buff” Smooth-face CMU	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	60 mph
Sure Klean® Weather Seal Siloxane WB (1:9)	59 mph
“Buff” Ground-face CMU	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	60 mph
Sure Klean® Weather Seal Siloxane WB (1:9)	60 mph
“Golden Rod” Split-face CMU	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	58 mph
Sure Klean® Weather Seal Siloxane WB (1:9)	57 mph
“Golden Rod” Smooth-face CMU	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	59 mph
Sure Klean® Weather Seal Siloxane WB (1:9)	58 mph
“Golden Rod” Ground-face CMU	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	60 mph
Sure Klean® Weather Seal Siloxane WB (1:9)	60 mph

Test Results – Protective Water Repellents**Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes**

RESULTS	
“Kanta Brown” Split-face CMU	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	59 mph
Sure Klean® Weather Seal Siloxane WB (1:9)	59 mph
“Kanta Brown” Smooth-face CMU	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	60 mph
Sure Klean® Weather Seal Siloxane WB (1:9)	60 mph
“Kanta Brown” Ground-face CMU	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	59 mph
Sure Klean® Weather Seal Siloxane WB (1:9)	58 mph
“Natural” Split-face CMU	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	59 mph
Sure Klean® Weather Seal Siloxane WB (1:9)	60 mph
“Natural” Smooth-face CMU	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	60 mph
Sure Klean® Weather Seal Siloxane WB (1:9)	60 mph
“Natural” Ground-face CMU	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	60 mph
Sure Klean® Weather Seal Siloxane WB (1:9)	60 mph
“Old Red” Split-face CMU	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	60 mph
Sure Klean® Weather Seal Siloxane WB (1:9)	60 mph
“Old Red” Smooth-face CMU	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	60 mph
Sure Klean® Weather Seal Siloxane WB (1:9)	60 mph
“Old Red” Ground-face CMU	
Untreated Control	<40 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	60 mph
Sure Klean® Weather Seal Siloxane WB (1:9)	60 mph

Photographs – Protective Water Repellents

“Golden Rod” Split-face CMU; RILEM II.4, 60 mph, 20 Minutes



Conclusions – Protective Water Repellents

Based upon laboratory evaluations, both of the PROSOCO, Inc. products tested provided excellent water repellency to each of the submitted samples. In addition, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control and Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II provided a slight color enhancement to the submitted samples. Sure Klean® Weather Seal Siloxane WB Concentrate diluted with nine parts water did not alter the appearance of the samples in any way.

Recommendations – Protective Water Repellents

Recommendations for water repellency for each type of CMU submitted by Kanta Products, Inc., Three Forks, MT are provided in the chart below. Recommendations are based on the treatment that proved most effective and can provide water repellency on all types submitted.

Sample	Protective Water Repellents
All Submitted CMU's	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control OR Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II 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

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

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.

Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II – A clear-drying, water-based silicone emulsion for weatherproofing concrete block and other porous masonry materials. Blok-Guard® & Graffiti Control II also protects masonry surfaces from graffiti attacks without altering the natural appearance. Blok-Guard® & Graffiti Control II protects exterior walls exposed to normal weathering. Graffiti removal from treated surfaces is fast and easy using Defacer Eraser® Graffiti Wipe. Blok-Guard® & Graffiti Control II 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

Sections of the CMU's were treated with Sure Klean® Weather Seal Blok-Guard® & Graffiti Control and Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II in accordance with the current PROSOCO, Inc. Product Data Sheet application instructions and were 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 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 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.
2. Allow appropriate dwell time:
 - Graffiti Wipe5 minutes
 - Fast Acting Stripper20 minutes
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

“Black” Split-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	85%	95%	20%	40%	60%
Graffiti Wipe	90%	40%	20%	40%	48%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	100%	85%	98%	93%
Graffiti Wipe	98%	100%	75%	90%	91%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	60%	80%	84%
Graffiti Wipe	98%	100%	40%	80%	80%
“Black” Smooth-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	95%	50%	85%	80%
Graffiti Wipe	95%	60%	50%	75%	70%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	99%	100%	80%	98%	94%
Graffiti Wipe	98%	100%	80%	95%	93%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	99%	95%	80%	95%	92%
Graffiti Wipe	98%	90%	80%	90%	90%
“Black” Ground-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	65%	90%	30%	95%	70%
Graffiti Wipe	90%	50%	30%	80%	63%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	98%	100%	70%	98%	92%
Graffiti Wipe	98%	95%	60%	90%	86%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	98%	100%	40%	95%	83%
Graffiti Wipe	98%	95%	40%	90%	81%

Test Results – Graffiti Control

“Buff” Split-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	20%	10%	30%	38%
Graffiti Wipe	50%	10%	10%	30%	25%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	98%	99%	85%	98%	95%
Graffiti Wipe	99%	99%	85%	98%	95%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	98%	95%	40%	70%	76%
Graffiti Wipe	98%	85%	40%	70%	73%
“Buff” Smooth-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	90%	60%	70%	78%
Graffiti Wipe	99%	80%	60%	60%	75%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	98%	95%	90%	95%	95%
Graffiti Wipe	100%	95%	90%	95%	95%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	99%	95%	80%	95%	92%
Graffiti Wipe	100%	90%	80%	80%	88%
“Buff” Ground-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	80%	85%	40%	40%	61%
Graffiti Wipe	95%	60%	40%	40%	59%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	98%	95%	90%	95%	95%
Graffiti Wipe	99%	95%	90%	95%	95%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	95%	60%	95%	86%
Graffiti Wipe	98%	90%	60%	90%	85%
“Golden Rod” Split-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	95%	10%	70%	66%
Graffiti Wipe	60%	10%	10%	10%	23%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	99%	100%	80%	98%	94%
Graffiti Wipe	100%	100%	70%	98%	92%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	99%	100%	70%	95%	91%
Graffiti Wipe	99%	95%	70%	85%	87%

Test Results – Graffiti Control

“Golden Rod” Smooth-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	85%	40%	85%	75%
Graffiti Wipe	70%	40%	20%	20%	38%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	100%	98%	95%	98%	98%
Graffiti Wipe	100%	95%	80%	90%	91%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	100%	98%	95%	98%	98%
Graffiti Wipe	100%	95%	80%	80%	89%
“Golden Rod” Ground-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	80%	90%	40%	95%	76%
Graffiti Wipe	50%	50%	50%	85%	59%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	98%	95%	70%	95%	90%
Graffiti Wipe	98%	90%	70%	95%	88%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	98%	95%	60%	95%	87%
Graffiti Wipe	98%	85%	60%	90%	83%
“Kanta Brown” Split-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	80%	40%	10%	40%	43%
Graffiti Wipe	40%	10%	20%	30%	25%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	98%	100%	90%	100%	97%
Graffiti Wipe	99%	100%	95%	99%	98%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	98%	100%	70%	95%	91%
Graffiti Wipe	99%	90%	70%	90%	87%
“Kanta Brown” Smooth-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	90%	40%	60%	70%
Graffiti Wipe	99%	80%	40%	70%	72%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	99%	99%	90%	95%	96%
Graffiti Wipe	100%	98%	95%	95%	97%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	99%	99%	70%	95%	91%
Graffiti Wipe	100%	98%	70%	85%	88%

Test Results – Graffiti Control

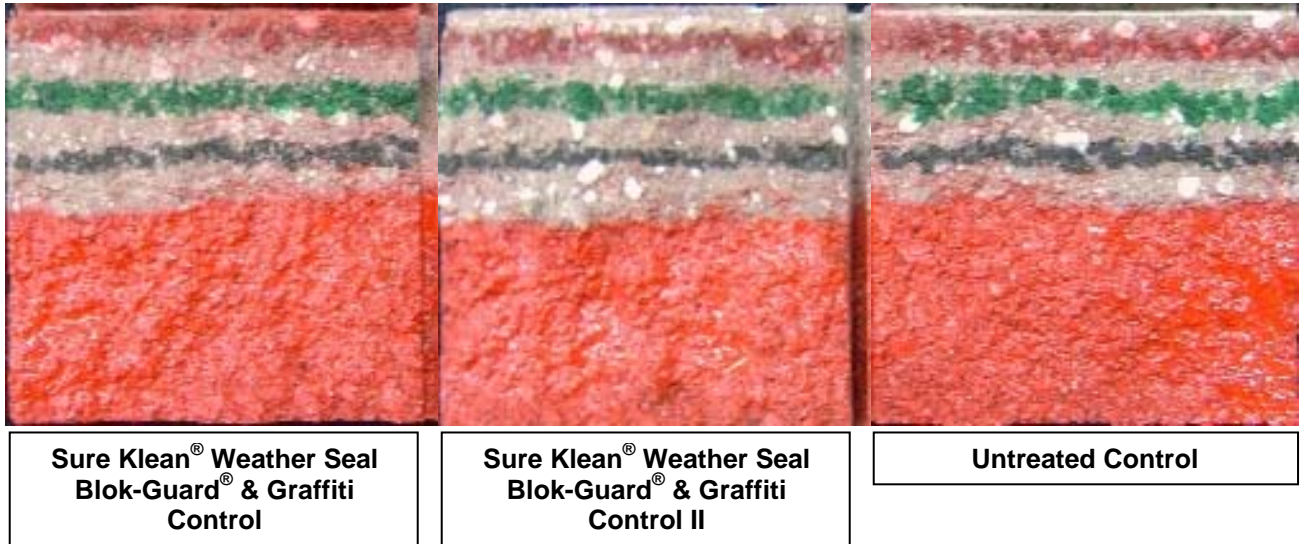
“Kanta Brown” Ground-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	80%	80%	40%	70%	68%
Graffiti Wipe	95%	80%	40%	70%	71%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	99%	100%	90%	98%	97%
Graffiti Wipe	99%	100%	90%	98%	97%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	99%	95%	60%	80%	84%
Graffiti Wipe	99%	95%	60%	80%	84%
“Natural” Split-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	80%	10%	20%	50%
Graffiti Wipe	60%	10%	10%	20%	25%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	99%	98%	90%	98%	96%
Graffiti Wipe	99%	98%	90%	90%	94%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	98%	90%	70%	80%	85%
Graffiti Wipe	98%	90%	70%	80%	85%
“Natural” Smooth-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	80%	40%	70%	71%
Graffiti Wipe	80%	40%	40%	60%	55%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	99%	95%	60%	90%	86%
Graffiti Wipe	100%	80%	60%	80%	80%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	99%	90%	60%	90%	85%
Graffiti Wipe	100%	70%	60%	80%	78%
“Natural” Ground-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	75%	80%	20%	85%	65%
Graffiti Wipe	75%	10%	20%	70%	44%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	99%	100%	95%	98%	98%
Graffiti Wipe	99%	98%	90%	98%	96%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	98%	95%	60%	90%	86%
Graffiti Wipe	98%	80%	60%	80%	80%

Test Results – Graffiti Control

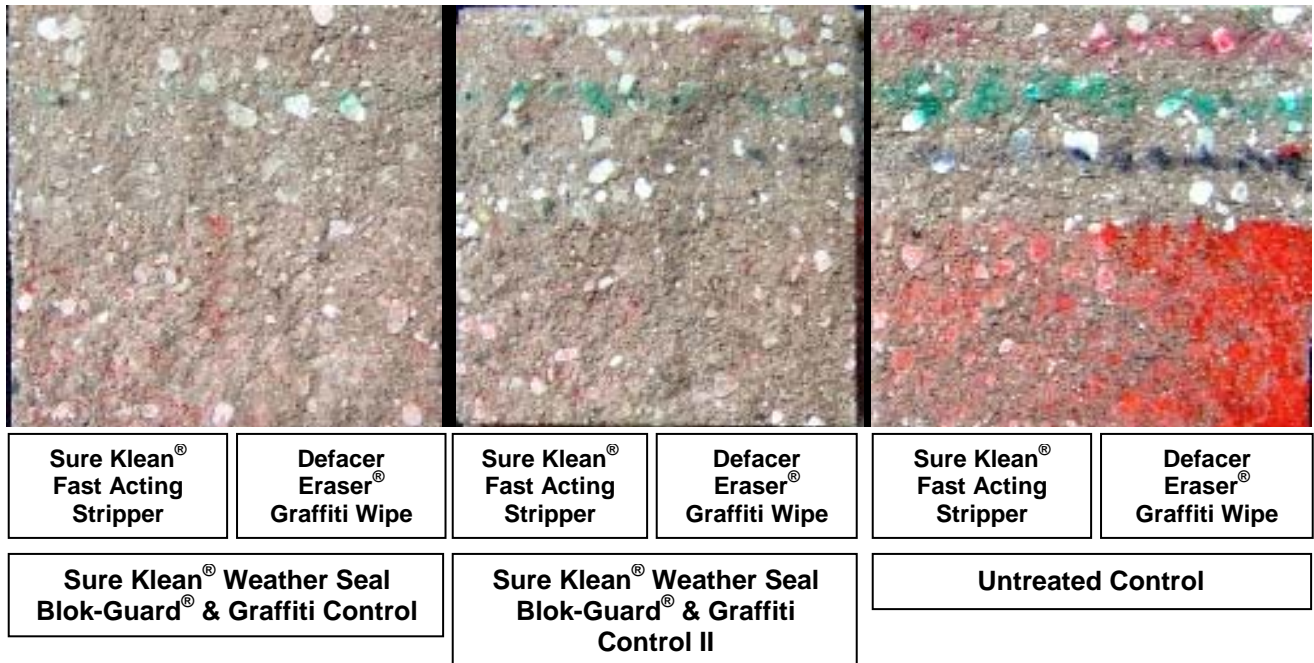
“Old Red” Split-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	85%	85%	20%	40%	58%
Graffiti Wipe	85%	40%	40%	20%	46%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	99%	100%	95%	100%	99%
Graffiti Wipe	99%	100%	95%	98%	98%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	98%	98%	80%	90%	92%
Graffiti Wipe	98%	95%	80%	80%	88%
“Old Red” Smooth-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	80%	60%	70%	76%
Graffiti Wipe	60%	10%	60%	70%	50%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	100%	100%	80%	90%	93%
Graffiti Wipe	100%	100%	80%	90%	93%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	100%	95%	80%	95%	93%
Graffiti Wipe	100%	90%	80%	90%	90%
“Old Red” Ground-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	80%	40%	40%	63%
Graffiti Wipe	70%	10%	40%	40%	40%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	99%	90%	90%	98%	94%
Graffiti Wipe	99%	90%	90%	95%	94%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	98%	90%	70%	90%	87%
Graffiti Wipe	98%	80%	70%	80%	82%

Photographs – Graffiti Control

“Kanta Brown” Split-face CMU; Before Graffiti Removal



“Kanta Brown” 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 and Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II prior to graffiti application. In addition, both treatments provided a slight color enhancement to the submitted samples.

Recommendations – Graffiti Control

Recommendations for graffiti control treatment for each type of CMU submitted by Kanta Products, Inc., Three Forks, MT 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 OR Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	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.

Color and Sheen Enhancement

This evaluation compares the effectiveness of the evaluated products in providing color and sheen enhancement to the submitted ground-face CMU's.

Description of Products Evaluated – Color and Sheen Enhancement

Stand Off® Gloss 'N Guard WB – A highly durable polyurethane protective coating for tile, pavers, terrazzo and other polished and unpolished masonry. Gloss 'N Guard WB dries to a high-gloss finish, which enhances the natural beauty of treated surfaces – both horizontal and vertical. Gloss 'N Guard WB's water-based formula offers several improvements on similar solvent-based products. No solvent odor, easy soap and water cleanup, and reduced fire-hazards make the treatment safe and easy to use, as well as effective. In addition, Gloss 'N Guard WB complies with all known regulations limiting Volatile Organic Compound (VOC) content.

Sample Preparation – Color and Sheen Enhancement

Samples were cleaned with Enviro Klean® 2010 All Surface Cleaner diluted with 10 parts water and allowed to dry for at least 24 hours prior to treatment.

Test Method – Color and Sheen Enhancement

Stand Off® Gloss 'N Guard WB was applied by brush in accordance with the current PROSOCO, Inc. Product Data Sheet application instructions. After 24 hours, a visual evaluation was made comparing the untreated surface to the treated surfaces.

Test Results – Color and Sheen Enhancement

“Black” Ground-face CMU		
Treatment	Color Enhancement	Sheen Enhancement
Stand Off® Gloss 'N Guard WB	2	3
“Buff” Ground-face CMU		
Treatment	Color Enhancement	Sheen Enhancement
Stand Off® Gloss 'N Guard WB	2	3
“Golden Rod” Ground-face CMU		
Treatment	Color Enhancement	Sheen Enhancement
Stand Off® Gloss 'N Guard WB	2	3
“Kanta Brown” Ground-face CMU		
Treatment	Color Enhancement	Sheen Enhancement
Stand Off® Gloss 'N Guard WB	2	3
“Natural” Ground-face CMU		
Treatment	Color Enhancement	Sheen Enhancement
Stand Off® Gloss 'N Guard WB	2	3
“Old Red” Ground-face CMU		
Treatment	Color Enhancement	Sheen Enhancement
Stand Off® Gloss 'N Guard WB	2	3

Scale: 0 – No Enhancement; Dull
 1 – Slight Enhancement
 2 – Moderate Enhancement
 3 – Significant Enhancement

Photographs – Color and Sheen Enhancement**“Black” Ground-face CMU; Treatment Applied****Recommendations – Color and Sheen Enhancement**

Recommendations for color and sheen enhancement for the ground-face CMU's submitted by Kanta Products, Inc., Three Forks, MT are provided in the chart below. Recommendations are based on the treatment that proved most effective in providing color and/or sheen enhancement to the submitted samples.

Sample	Color Enhancement	Sheen Enhancement
All Submitted Ground-face CMU's	Stand Off® Gloss 'N Guard WB	Stand Off® Gloss 'N Guard WB

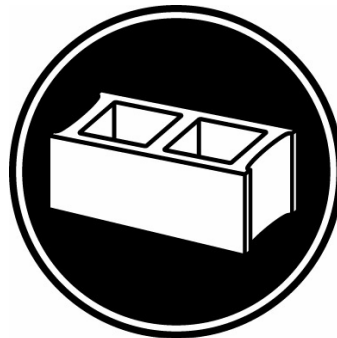
Apply all products in accordance with the manufacturer's recommendation provided on container labels and product data sheets. On-site testing should be conducted to determine the most appropriate product and procedures for a particular project. See product literature for additional application and product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

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CAM



PALLET TAG PROGRAM
Laboratory Report

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Project No. 0604-02 PTP

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