

**Table of Contents**

**Executive Summary** ..... i

**Submitted Information** ..... 1

**Introduction** ..... 1

**Purpose of Testing**..... 2

    Products Evaluated ..... 3

**New Construction Cleaning** ..... 4

    Description of Products Evaluated – New Construction Cleaning ..... 4

    Sample Preparation – New Construction Cleaning ..... 4

    Test Method – New Construction Cleaning ..... 4

    Test Results – New Construction Cleaning ..... 5

    Test Results – New Construction Cleaning ..... 6

    Test Results – New Construction Cleaning ..... 7

    Test Results – New Construction Cleaning ..... 8

    Photographs – New Construction Cleaning ..... 13

    Photographs – Color Uniformity ..... 14

    Conclusions – New Construction Cleaning ..... 14

    Recommendations – New Construction Cleaning ..... 14

**Protective Water Repellents**..... 15

    Description of Products Evaluated – Protective Water Repellents ..... 15

    Sample Preparation – Protective Water Repellents ..... 15

    Test Methods – Protective Water Repellents ..... 15

    Test Results – Protective Water Repellents ..... 16

    Test Results – Protective Water Repellents ..... 17

    Test Results – Protective Water Repellents ..... 18

    Photographs – Protective Water Repellents ..... 19

    Conclusions – Protective Water Repellents ..... 19

    Recommendations – Protective Water Repellents ..... 19

**Graffiti Control**..... 20

    Description of Products Evaluated – Graffiti Control ..... 20

    Sample Preparation – Graffiti Control ..... 20

    Test Method – Graffiti Control ..... 21

    Test Results – Graffiti Control ..... 22

    Test Results – Graffiti Control ..... 23

    Test Results – Graffiti Control ..... 24

    Test Results – Graffiti Control ..... 25

    Test Results – Graffiti Control ..... 26

    Photographs – Graffiti Control ..... 27

    Conclusions – Graffiti Control ..... 28

    Recommendations – Graffiti Control ..... 28

**Attachments**

    Technical Services TECH Note RILEM Tube Test Procedures

    Product Data literature for all products evaluated

**Submitted Information**

**For:** Matt Henderson  
**cc:** Brian Koenings

**Subject:** County Materials Corporation  
 Roberts, WI

**Date:** May 30, 2007

**Project:** 0704-01 PTP

**Samples Submitted:** 18 types of split face CMUs

<b>Name</b>	<b>Color</b>	<b>Size</b>
"Natural Gray"	Gray	7½" x 15½" x 1"
"Brick Rose"	Red	7½" x 15½" x 1"
"Forest Berry"	Red	7½" x 15½" x 1"
"Phoenix Sun"	Orange	7½" x 15½" x 1"
"Deerfield"	Orange	7½" x 15½" x 1"
"Red Dust"	Red	7½" x 15½" x 1"
"Washed Suede"	Brown	7½" x 15½" x 1"
"Hershey Chocolate"	Brown	7½" x 15½" x 1"
"Tumble Weed"	Yellow	7½" x 15½" x 1"
"Tobacco Road"	Brown	7½" x 15½" x 1"
"Mushroom"	Brown	7½" x 15½" x 1"
"Desert Castle"	Brown	7½" x 15½" x 1"
"Autumn Glow"	Brown	7½" x 15½" x 1"
"October Oak"	Brown	7½" x 15½" x 1"
"Taupe"	Brown	7½" x 15½" x 1"
"Pacific Beach"	Brown	7½" x 15½" x 1"
"Blackened Ash"	Black	7½" x 15½" x 1"
"Smokey Mountain"	Black	7½" x 15½" x 1"

Submitted by: Matt Henderson

**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**

Eighteen types of integrally colored CMUs, 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 and graffiti control products suitable for CMUs 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 – <b>Worst</b> match to through-body | 3 – <b>Good</b> match to through-body |
| 1 – <b>Poor</b> match to through-body  | 4 – <b>Best</b> match to through-body |
| 2 – <b>Fair</b> match to through-body  |                                       |

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

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

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

**Protective Water Repellents** – Sure Klean® Custom Masonry Sealer, Sure Klean® Weather Seal Siloxane WB Concentrate, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control and Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II 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.

**Products Evaluated****New Construction Cleaning Products Evaluated**

Sample	Product	Dilution
All Submitted CMUs	Sure Klean® Custom Masonry Cleaner	1:2, 1:4, 1:6
	Sure Klean® Burnished Custom Masonry Cleaner	1:2, 1:3

**Protective Water Repellent Products Evaluated**

Sample	Product	Dilution
All Submitted CMUs	Sure Klean® Custom Masonry Sealer	Concentrate
	Sure Klean® Weather Seal Siloxane WB Concentrate	(1:9)
	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	Concentrate
	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	Concentrate

**Graffiti Control Products Evaluated**

Sample	Product	Dilution
All Submitted CMUs	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 CMUs	Sure Klean® Fast Acting Stripper	Concentrate
	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 samples while providing the best color uniformity when compared to the through-body color of the submitted CMUs.

---

### **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 provides the best color uniformity when compared to the through-body color of the CMUs.

---

### **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 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)**

<b>“Natural Gray” Split Face CMU</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Custom Masonry Cleaner	1:2	100%	100%	100%
Custom Masonry Cleaner	1:4	100%	100%	100%
Custom Masonry Cleaner	1:6	100%	100%	100%
Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
Burnished Custom Masonry Cleaner	1:3	100%	100%	100%
<b>“Brick Rose” Split Face CMU</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Custom Masonry Cleaner	1:2	100%	100%	98%
Custom Masonry Cleaner	1:4	100%	100%	98%
Custom Masonry Cleaner	1:6	100%	99%	98%
Burnished Custom Masonry Cleaner	1:2	98%	98%	98%
Burnished Custom Masonry Cleaner	1:3	98%	95%	100%
<b>“Forest Berry” Split Face CMU</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Custom Masonry Cleaner	1:2	100%	100%	100%
Custom Masonry Cleaner	1:4	100%	100%	100%
Custom Masonry Cleaner	1:6	100%	100%	100%
Burnished Custom Masonry Cleaner	1:2	99%	98%	100%
Burnished Custom Masonry Cleaner	1:3	95%	100%	100%
<b>“Phoenix Sun” Split Face CMU</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Custom Masonry Cleaner	1:2	100%	100%	100%
Custom Masonry Cleaner	1:4	100%	100%	100%
Custom Masonry Cleaner	1:6	100%	100%	100%
Burnished Custom Masonry Cleaner	1:2	99%	100%	100%
Burnished Custom Masonry Cleaner	1:3	99%	100%	100%
<b>“Deerfield” Split Face CMU</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Custom Masonry Cleaner	1:2	100%	100%	100%
Custom Masonry Cleaner	1:4	100%	100%	100%
Custom Masonry Cleaner	1:6	100%	100%	100%
Burnished Custom Masonry Cleaner	1:2	100%	98%	100%
Burnished Custom Masonry Cleaner	1:3	98%	100%	100%

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

<b>“Red Dust” Split Face CMU</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Custom Masonry Cleaner	1:2	100%	100%	100%
Custom Masonry Cleaner	1:4	100%	100%	100%
Custom Masonry Cleaner	1:6	100%	100%	100%
Burnished Custom Masonry Cleaner	1:2	100%	100%	99%
Burnished Custom Masonry Cleaner	1:3	100%	98%	99%
<b>“Washed Suede” Split Face CMU</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Custom Masonry Cleaner	1:2	100%	100%	100%
Custom Masonry Cleaner	1:4	100%	100%	100%
Custom Masonry Cleaner	1:6	100%	100%	100%
Burnished Custom Masonry Cleaner	1:2	100%	98%	98%
Burnished Custom Masonry Cleaner	1:3	100%	98%	99%
<b>“Hershey Chocolate” Split Face CMU</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Custom Masonry Cleaner	1:2	100%	100%	100%
Custom Masonry Cleaner	1:4	100%	100%	100%
Custom Masonry Cleaner	1:6	100%	100%	100%
Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
Burnished Custom Masonry Cleaner	1:3	100%	100%	100%
<b>“Tumble Weed” Split Face CMU</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Custom Masonry Cleaner	1:2	100%	100%	100%
Custom Masonry Cleaner	1:4	100%	100%	100%
Custom Masonry Cleaner	1:6	100%	100%	100%
Burnished Custom Masonry Cleaner	1:2	98%	100%	100%
Burnished Custom Masonry Cleaner	1:3	98%	98%	100%
<b>“Tobacco Road” Split Face CMU</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Custom Masonry Cleaner	1:2	100%	100%	100%
Custom Masonry Cleaner	1:4	100%	100%	100%
Custom Masonry Cleaner	1:6	100%	100%	100%
Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
Burnished Custom Masonry Cleaner	1:3	100%	100%	100%

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

<b>“Mushroom” Split Face CMU</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Custom Masonry Cleaner	1:2	100%	100%	100%
Custom Masonry Cleaner	1:4	100%	100%	100%
Custom Masonry Cleaner	1:6	100%	100%	100%
Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
Burnished Custom Masonry Cleaner	1:3	100%	100%	100%
<b>“Desert Castle” Split Face CMU</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Custom Masonry Cleaner	1:2	100%	100%	100%
Custom Masonry Cleaner	1:4	100%	100%	100%
Custom Masonry Cleaner	1:6	100%	100%	100%
Burnished Custom Masonry Cleaner	1:2	100%	100%	98%
Burnished Custom Masonry Cleaner	1:3	99%	100%	100%
<b>“Autumn Glow” Split Face CMU</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Custom Masonry Cleaner	1:2	100%	100%	100%
Custom Masonry Cleaner	1:4	100%	100%	100%
Custom Masonry Cleaner	1:6	100%	100%	100%
Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
Burnished Custom Masonry Cleaner	1:3	100%	100%	100%
<b>“October Oak” Split Face CMU</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Custom Masonry Cleaner	1:2	100%	100%	100%
Custom Masonry Cleaner	1:4	100%	100%	100%
Custom Masonry Cleaner	1:6	100%	100%	100%
Burnished Custom Masonry Cleaner	1:2	100%	100%	98%
Burnished Custom Masonry Cleaner	1:3	100%	100%	98%
<b>“Taupe” Split Face CMU</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Custom Masonry Cleaner	1:2	100%	100%	100%
Custom Masonry Cleaner	1:4	100%	100%	100%
Custom Masonry Cleaner	1:6	100%	100%	100%
Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
Burnished Custom Masonry Cleaner	1:3	98%	100%	100%



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

<b>“Pacific Beach” Split Face CMU</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Custom Masonry Cleaner	1:2	100%	100%	100%
Custom Masonry Cleaner	1:4	100%	100%	100%
Custom Masonry Cleaner	1:6	100%	100%	100%
Burnished Custom Masonry Cleaner	1:2	100%	100%	98%
Burnished Custom Masonry Cleaner	1:3	98%	100%	98%
<b>“Blackened Ash” Split Face CMU</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Custom Masonry Cleaner	1:2	100%	100%	100%
Custom Masonry Cleaner	1:4	100%	100%	100%
Custom Masonry Cleaner	1:6	100%	100%	100%
Burnished Custom Masonry Cleaner	1:2	100%	100%	99%
Burnished Custom Masonry Cleaner	1:3	99%	99%	99%
<b>“Smokey Mountain” Split Face CMU</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Custom Masonry Cleaner	1:2	100%	100%	100%
Custom Masonry Cleaner	1:4	100%	100%	100%
Custom Masonry Cleaner	1:6	100%	100%	100%
Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
Burnished Custom Masonry Cleaner	1:3	100%	100%	100%

**Test Results – Color Uniformity**

<b>Substrate: Split Face CMU</b>		<b>Pigment Color: "Natural Gray"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	4
Custom Masonry Cleaner	1:4	4	4
Custom Masonry Cleaner	1:6	3	4
Burnished Custom Masonry Cleaner	1:2	3	4
Burnished Custom Masonry Cleaner	1:3	3	4
<b>Substrate: Split Face CMU</b>		<b>Pigment Color: "Brick Rose"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	4
Custom Masonry Cleaner	1:4	4	4
Custom Masonry Cleaner	1:6	3	4
Burnished Custom Masonry Cleaner	1:2	3	4
Burnished Custom Masonry Cleaner	1:3	3	4
<b>Substrate: Split Face CMU</b>		<b>Pigment Color: "Forest Berry"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	4
Custom Masonry Cleaner	1:4	4	4
Custom Masonry Cleaner	1:6	3	4
Burnished Custom Masonry Cleaner	1:2	3	4
Burnished Custom Masonry Cleaner	1:3	3	4
<b>Substrate: Split Face CMU</b>		<b>Pigment Color: "Phoenix Sun"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	4
Custom Masonry Cleaner	1:4	4	4
Custom Masonry Cleaner	1:6	3	4
Burnished Custom Masonry Cleaner	1:2	3	4
Burnished Custom Masonry Cleaner	1:3	3	4
<b>Substrate: Split Face CMU</b>		<b>Pigment Color: "Deerfield"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	4
Custom Masonry Cleaner	1:4	4	4
Custom Masonry Cleaner	1:6	3	4
Burnished Custom Masonry Cleaner	1:2	3	4
Burnished Custom Masonry Cleaner	1:3	3	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**

<b>Substrate: Split Face CMU</b>		<b>Pigment Color: "Red Dust"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	4
Custom Masonry Cleaner	1:4	4	4
Custom Masonry Cleaner	1:6	3	4
Burnished Custom Masonry Cleaner	1:2	3	4
Burnished Custom Masonry Cleaner	1:3	3	4
<b>Substrate: Split Face CMU</b>		<b>Pigment Color: "Washed Suede"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	4
Custom Masonry Cleaner	1:4	4	4
Custom Masonry Cleaner	1:6	3	4
Burnished Custom Masonry Cleaner	1:2	3	4
Burnished Custom Masonry Cleaner	1:3	3	4
<b>Substrate: Split Face CMU</b>		<b>Pigment Color: "Hershey Chocolate"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	4
Custom Masonry Cleaner	1:4	4	4
Custom Masonry Cleaner	1:6	3	4
Burnished Custom Masonry Cleaner	1:2	3	4
Burnished Custom Masonry Cleaner	1:3	3	4
<b>Substrate: Split Face CMU</b>		<b>Pigment Color: "Tumble Weed"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	4
Custom Masonry Cleaner	1:4	4	4
Custom Masonry Cleaner	1:6	3	4
Burnished Custom Masonry Cleaner	1:2	3	4
Burnished Custom Masonry Cleaner	1:3	3	4
<b>Substrate: Split Face CMU</b>		<b>Pigment Color: "Tobacco Road"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	4
Custom Masonry Cleaner	1:4	4	4
Custom Masonry Cleaner	1:6	3	4
Burnished Custom Masonry Cleaner	1:2	3	4
Burnished Custom Masonry Cleaner	1:3	3	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**

<b>Substrate: Split Face CMU</b>		<b>Pigment Color: "Mushroom"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	4
Custom Masonry Cleaner	1:4	4	4
Custom Masonry Cleaner	1:6	3	4
Burnished Custom Masonry Cleaner	1:2	3	4
Burnished Custom Masonry Cleaner	1:3	3	4
<b>Substrate: Split Face CMU</b>		<b>Pigment Color: "Desert Castle"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	4
Custom Masonry Cleaner	1:4	4	4
Custom Masonry Cleaner	1:6	3	4
Burnished Custom Masonry Cleaner	1:2	3	4
Burnished Custom Masonry Cleaner	1:3	3	4
<b>Substrate: Split Face CMU</b>		<b>Pigment Color: "Autumn Glow"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	4
Custom Masonry Cleaner	1:4	4	4
Custom Masonry Cleaner	1:6	3	4
Burnished Custom Masonry Cleaner	1:2	3	4
Burnished Custom Masonry Cleaner	1:3	3	4
<b>Substrate: Split Face CMU</b>		<b>Pigment Color: "October Oak"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	4
Custom Masonry Cleaner	1:4	4	4
Custom Masonry Cleaner	1:6	3	4
Burnished Custom Masonry Cleaner	1:2	3	4
Burnished Custom Masonry Cleaner	1:3	3	4
<b>Substrate: Split Face CMU</b>		<b>Pigment Color: "Taupe"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	4
Custom Masonry Cleaner	1:4	4	4
Custom Masonry Cleaner	1:6	3	4
Burnished Custom Masonry Cleaner	1:2	3	4
Burnished Custom Masonry Cleaner	1:3	3	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**

<b>Substrate: Split Face CMU</b>		<b>Pigment Color: "Pacific Beach"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	4
Custom Masonry Cleaner	1:4	4	4
Custom Masonry Cleaner	1:6	3	4
Burnished Custom Masonry Cleaner	1:2	3	4
Burnished Custom Masonry Cleaner	1:3	3	4
<b>Substrate: Split Face CMU</b>		<b>Pigment Color: "Blackened Ash"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	4
Custom Masonry Cleaner	1:4	4	4
Custom Masonry Cleaner	1:6	3	4
Burnished Custom Masonry Cleaner	1:2	3	4
Burnished Custom Masonry Cleaner	1:3	3	4
<b>Substrate: Split Face CMU</b>		<b>Pigment Color: "Smokey Mountain"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	4
Custom Masonry Cleaner	1:4	4	4
Custom Masonry Cleaner	1:6	3	4
Burnished Custom Masonry Cleaner	1:2	3	4
Burnished Custom Masonry Cleaner	1:3	3	4

Scale used for reporting results of both categories

- |  |                                       |
|--|---------------------------------------|
| 0 – <b>Worst</b> match to through-body | 3 – <b>Good</b> match to through-body |
| 1 – <b>Poor</b> match to through-body  | 4 – <b>Best</b> match to through-body |
| 2 – <b>Fair</b> match to through-body  |                                       |

**Photographs – New Construction Cleaning**

**“Forest Berry” Split Face CMU; 3 Day Cleaning**



**Custom  
Masonry  
Cleaner  
(1:2)**

**Custom  
Masonry  
Cleaner  
(1:4)**

**Custom  
Masonry  
Cleaner  
(1:6)**

**Burnished  
Custom  
Masonry  
Cleaner  
(1:2)**

**Burnished  
Custom  
Masonry  
Cleaner  
(1:3)**

**Untreated  
Control**

**“Forest Berry” Split Face CMU; 7 Day Cleaning**



**Custom  
Masonry  
Cleaner  
(1:2)**

**Custom  
Masonry  
Cleaner  
(1:4)**

**Custom  
Masonry  
Cleaner  
(1:6)**

**Burnished  
Custom  
Masonry  
Cleaner  
(1:2)**

**Burnished  
Custom  
Masonry  
Cleaner  
(1:3)**

**Untreated  
Control**

**“Forest Berry” Split Face CMU; 14 Day Cleaning**



**Custom  
Masonry  
Cleaner  
(1:2)**

**Custom  
Masonry  
Cleaner  
(1:4)**

**Custom  
Masonry  
Cleaner  
(1:6)**

**Burnished  
Custom  
Masonry  
Cleaner  
(1:2)**

**Burnished  
Custom  
Masonry  
Cleaner  
(1:3)**

**Untreated  
Control**

**Photographs – Color Uniformity**

**“Forest Berry” Split Face CMU; Color Uniformity**



<p><b>Custom Masonry Cleaner (1:2)</b></p>	<p><b>Custom Masonry Cleaner (1:4)</b></p>	<p><b>Custom Masonry Cleaner (1:6)</b></p>	<p><b>Burnished Custom Masonry Cleaner (1:2)</b></p>	<p><b>Burnished Custom Masonry Cleaner (1:3)</b></p>	<p><b>Through-body</b></p>
--	--	--	--	--	----------------------------

**Conclusions – New Construction Cleaning**

Based on the test data, all of the submitted CMUs were efficiently cleaned with Sure Klean® Custom Masonry Cleaner and Sure Klean® Burnished Custom Masonry Cleaner.

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 County Materials Corporation, Roberts, WI 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 CMUs.

<p><b>Sample</b></p>	<p><b>New Construction Cleaning (Type S mortar, 14 day cleaning)</b></p>
<p>All Submitted CMUs</p>	<p>Sure Klean® Custom Masonry Cleaner (1:2) OR (1:4) OR (1:6) OR Sure Klean® Burnished Custom Masonry Cleaner (1:2) OR (1:3)</p>

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® Custom Masonry Sealer** – A clear, solvent-based silicone elastomer formulated to weatherproof custom masonry units, cast stone, architectural concrete block, pre-cast concrete, wood and porous masonry. Custom Masonry Sealer penetrates and fills pores to prevent water penetration through exterior walls exposed to normal weathering.

**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.

**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.

---

### **Sample Preparation – Protective Water Repellents**

The submitted samples were scored and allowed to dry for 24 hours prior to treatment. Both of the products were applied by brush in accordance with the current PROSOCO, Inc. Product Data Sheet application instructions. Both 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**

		<i>Results</i>
<b>"Natural Gray" Split Face CMU</b>		
Untreated Control		<40 mph
Sure Klean® Custom Masonry Sealer		60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II		60 mph
<b>"Brick Rose" Split Face CMU</b>		
Untreated Control		<40 mph
Sure Klean® Custom Masonry Sealer		59 mph
Sure Klean® Weather Seal Siloxane WB Concentrate		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control		59 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II		58 mph
<b>"Forest Berry" Split Face CMU</b>		
Untreated Control		<40 mph
Sure Klean® Custom Masonry Sealer		60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II		60 mph
<b>"Phoenix Sun" Split Face CMU</b>		
Untreated Control		<40 mph
Sure Klean® Custom Masonry Sealer		60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II		60 mph
<b>"Deerfield" Split Face CMU</b>		
Untreated Control		<40 mph
Sure Klean® Custom Masonry Sealer		60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II		59 mph
<b>"Red Dust" Split Face CMU</b>		
Untreated Control		<40 mph
Sure Klean® Custom Masonry Sealer		59 mph
Sure Klean® Weather Seal Siloxane WB Concentrate		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II		60 mph

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

		<i>Results</i>
<b>"Washed Suede" Split Face CMU</b>		
Untreated Control		<40 mph
Sure Klean® Custom Masonry Sealer		60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II		60 mph
<b>"Hershey Chocolate" Split Face CMU</b>		
Untreated Control		<40 mph
Sure Klean® Custom Masonry Sealer		60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II		60 mph
<b>"Tumble Weed" Split Face CMU</b>		
Untreated Control		<40 mph
Sure Klean® Custom Masonry Sealer		60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II		60 mph
<b>"Tobacco Road" Split Face CMU</b>		
Untreated Control		<40 mph
Sure Klean® Custom Masonry Sealer		60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II		60 mph
<b>"Mushroom" Split Face CMU</b>		
Untreated Control		<40 mph
Sure Klean® Custom Masonry Sealer		60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II		60 mph
<b>"Desert Castle" Split Face CMU</b>		
Untreated Control		<40 mph
Sure Klean® Custom Masonry Sealer		60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II		59 mph

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

		<i>Results</i>
<b>"Autumn Glow" Split Face CMU</b>		
Untreated Control		<40 mph
Sure Klean® Custom Masonry Sealer		60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II		60 mph
<b>"October Oak" Split Face CMU</b>		
Untreated Control		<40 mph
Sure Klean® Custom Masonry Sealer		59 mph
Sure Klean® Weather Seal Siloxane WB Concentrate		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II		59 mph
<b>"Taupe" Split Face CMU</b>		
Untreated Control		<40 mph
Sure Klean® Custom Masonry Sealer		60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II		60 mph
<b>"Pacific Beach" Split Face CMU</b>		
Untreated Control		<40 mph
Sure Klean® Custom Masonry Sealer		59 mph
Sure Klean® Weather Seal Siloxane WB Concentrate		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II		60 mph
<b>"Blackened Ash" Split Face CMU</b>		
Untreated Control		<40 mph
Sure Klean® Custom Masonry Sealer		60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II		60 mph
<b>"Smokey Moutain" Split Face CMU</b>		
Untreated Control		<40 mph
Sure Klean® Custom Masonry Sealer		60 mph
Sure Klean® Weather Seal Siloxane WB Concentrate		60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control		59 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II		60 mph

**Photographs – Protective Water Repellents**

“Deerfield” Split Face CMU; RILEM II.4, 60 mph, 20 Minutes



<p><b>Sure Klean® Custom Masonry Sealer</b></p>	<p><b>Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)</b></p>	<p><b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control</b></p>	<p><b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b></p>	<p><b>Untreated Control</b></p>
---	--	---	--	-------------------------------------

**Conclusions – Protective Water Repellents**

Based upon laboratory evaluations, all of the products tested provided excellent water repellency to each of the submitted samples. In addition, Sure Klean® Custom Masonry Sealer, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II and Sure Klean® Weather Seal Blok-Guard® & Graffiti Control provided a slight to moderate color enhancement to the submitted samples. Sure Klean® Weather Seal PD and Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) did not alter the appearance of the samples.

**Recommendations – Protective Water Repellents**

Recommendations for water repellency for each CMU submitted by County Materials Corporation, Roberts, WI 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 CMUs	<p>*Sure Klean® Custom Masonry Sealer OR *Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control OR Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II OR Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)</p>

**\*NOTE:** Sure Klean® Custom Masonry Sealer and Sure Klean® Weather Seal Blok-Guard® & Graffiti Control are manufactured and marketed in compliance with USEPA AIM VOC regulations (40 CFR 59.403). These products may not be suitable for sale in states and districts with more restrictive AIM VOC regulations.

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 CMUs 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 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:
  - Defacer Eraser® Graffiti Wipe .....5 minutes
  - Sure Klean® Fast Acting Stripper .....20 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**

<b>“Natural Gray” Split Face CMU</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	80%	70%	70%	<b>78%</b>
Graffiti Wipe	90%	70%	70%	70%	<b>75%</b>
<b>Blok-Guard® &amp; Graffiti Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	95%	95%	95%	<b>95%</b>
Graffiti Wipe	99%	95%	90%	95%	<b>95%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	95%	70%	90%	<b>86%</b>
Graffiti Wipe	95%	90%	70%	80%	<b>84%</b>
<b>“Brick Rose” Split Face CMU</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	98%	80%	70%	95%	<b>86%</b>
Graffiti Wipe	98%	80%	70%	95%	<b>86%</b>
<b>Blok-Guard® &amp; Graffiti Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	100%	100%	95%	95%	<b>98%</b>
Graffiti Wipe	100%	100%	95%	95%	<b>98%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	100%	98%	95%	95%	<b>97%</b>
Graffiti Wipe	100%	98%	95%	95%	<b>97%</b>
<b>“Forest Berry” Split Face CMU</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	98%	95%	70%	80%	<b>86%</b>
Graffiti Wipe	98%	80%	70%	80%	<b>82%</b>
<b>Blok-Guard® &amp; Graffiti Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	100%	95%	80%	98%	<b>93%</b>
Graffiti Wipe	100%	90%	80%	95%	<b>91%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	98%	95%	80%	98%	<b>93%</b>
Graffiti Wipe	100%	90%	80%	90%	<b>90%</b>
<b>“Phoenix Sun” Split Face CMU</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	95%	60%	70%	<b>79%</b>
Graffiti Wipe	98%	50%	50%	70%	<b>67%</b>
<b>Blok-Guard® &amp; Graffiti Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	98%	95%	95%	<b>95%</b>
Graffiti Wipe	95%	95%	90%	90%	<b>93%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	95%	80%	90%	<b>90%</b>
Graffiti Wipe	98%	95%	70%	90%	<b>88%</b>

**Test Results – Graffiti Control**

<b>“Deerfield” Split Face CMU</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	95%	50%	70%	<b>78%</b>
Graffiti Wipe	98%	50%	50%	70%	<b>67%</b>
<b>Blok-Guard® &amp; Graffiti Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	98%	98%	98%	<b>97%</b>
Graffiti Wipe	98%	95%	95%	95%	<b>96%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	95%	95%	95%	<b>95%</b>
Graffiti Wipe	98%	95%	80%	90%	<b>91%</b>
<b>“Red Dust” Split Face CMU</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	95%	80%	80%	<b>88%</b>
Graffiti Wipe	98%	80%	80%	80%	<b>85%</b>
<b>Blok-Guard® &amp; Graffiti Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	98%	98%	98%	<b>97%</b>
Graffiti Wipe	100%	95%	95%	98%	<b>97%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	98%	90%	95%	<b>97%</b>
Graffiti Wipe	100%	95%	90%	95%	<b>95%</b>
<b>“Washed Suede” Split Face CMU</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	95%	70%	70%	<b>83%</b>
Graffiti Wipe	98%	80%	70%	70%	<b>80%</b>
<b>Blok-Guard® &amp; Graffiti Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	98%	80%	90%	<b>90%</b>
Graffiti Wipe	98%	95%	80%	80%	<b>88%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	98%	70%	90%	<b>88%</b>
Graffiti Wipe	98%	95%	70%	80%	<b>86%</b>
<b>“Hershey Chocolate” Split Face CMU</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	98%	70%	80%	<b>90%</b>
Graffiti Wipe	95%	70%	70%	70%	<b>76%</b>
<b>Blok-Guard® &amp; Graffiti Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	98%	90%	95%	<b>95%</b>
Graffiti Wipe	98%	98%	90%	95%	<b>95%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	98%	98%	80%	90%	<b>92%</b>
Graffiti Wipe	98%	95%	80%	80%	<b>88%</b>



**Test Results – Graffiti Control**

<b>“Tumble Weed” Split Face CMU</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	80%	60%	60%	60%	<b>65%</b>
Graffiti Wipe	80%	60%	60%	60%	<b>65%</b>
<b>Blok-Guard® &amp; Graffiti Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	90%	80%	90%	<b>89%</b>
Graffiti Wipe	95%	90%	80%	90%	<b>89%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	80%	80%	80%	<b>84%</b>
Graffiti Wipe	95%	80%	80%	80%	<b>84%</b>
<b>“Tobacco Road” Split Face CMU</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	90%	80%	90%	<b>88%</b>
Graffiti Wipe	80%	70%	70%	70%	<b>73%</b>
<b>Blok-Guard® &amp; Graffiti Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	95%	95%	95%	<b>94%</b>
Graffiti Wipe	90%	95%	90%	95%	<b>93%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	95%	80%	95%	<b>90%</b>
Graffiti Wipe	90%	95%	80%	95%	<b>90%</b>
<b>“Mushroom” Split Face CMU</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	90%	70%	70%	<b>80%</b>
Graffiti Wipe	80%	60%	70%	60%	<b>68%</b>
<b>Blok-Guard® &amp; Graffiti Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	98%	90%	80%	<b>91%</b>
Graffiti Wipe	90%	90%	80%	80%	<b>85%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	98%	80%	80%	<b>88%</b>
Graffiti Wipe	90%	95%	80%	80%	<b>86%</b>
<b>“Desert Castle” Split Face CMU</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	95%	70%	70%	<b>83%</b>
Graffiti Wipe	98%	95%	70%	70%	<b>83%</b>
<b>Blok-Guard® &amp; Graffiti Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	100%	95%	98%	<b>97%</b>
Graffiti Wipe	98%	98%	90%	95%	<b>95%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	98%	100%	80%	90%	<b>92%</b>
Graffiti Wipe	98%	98%	80%	90%	<b>92%</b>

**Test Results – Graffiti Control**

<b>“Autumn Glow” Split Face CMU</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	80%	70%	70%	70%	<b>73%</b>
Graffiti Wipe	80%	60%	70%	60%	<b>68%</b>
<b>Blok-Guard® &amp; Graffiti Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	98%	90%	80%	<b>91%</b>
Graffiti Wipe	90%	90%	80%	80%	<b>85%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	98%	80%	80%	<b>88%</b>
Graffiti Wipe	90%	95%	80%	80%	<b>86%</b>
<b>“October Oak” Split Face CMU</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	95%	50%	70%	<b>78%</b>
Graffiti Wipe	98%	50%	50%	70%	<b>67%</b>
<b>Blok-Guard® &amp; Graffiti Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	98%	98%	98%	<b>97%</b>
Graffiti Wipe	98%	95%	95%	95%	<b>96%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	98%	95%	95%	<b>96%</b>
Graffiti Wipe	98%	95%	80%	90%	<b>91%</b>
<b>“Taupe” Split Face CMU</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	90%	70%	70%	<b>80%</b>
Graffiti Wipe	80%	60%	70%	70%	<b>70%</b>
<b>Blok-Guard® &amp; Graffiti Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	98%	80%	90%	<b>91%</b>
Graffiti Wipe	90%	90%	80%	80%	<b>85%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	98%	70%	90%	<b>88%</b>
Graffiti Wipe	90%	95%	70%	80%	<b>84%</b>
<b>“Pacific Beach” Split Face CMU</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	95%	60%	70%	<b>79%</b>
Graffiti Wipe	98%	50%	50%	70%	<b>67%</b>
<b>Blok-Guard® &amp; Graffiti Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	98%	95%	95%	<b>94%</b>
Graffiti Wipe	95%	95%	90%	90%	<b>93%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	95%	80%	90%	<b>90%</b>
Graffiti Wipe	98%	95%	70%	90%	<b>88%</b>

**Test Results – Graffiti Control**

<b>“Blackened Ash” Split Face CMU</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	98%	70%	80%	<b>85%</b>
Graffiti Wipe	95%	70%	70%	70%	<b>76%</b>
<b>Blok-Guard® &amp; Graffiti Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	98%	90%	95%	<b>95%</b>
Graffiti Wipe	98%	98%	90%	95%	<b>95%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	98%	98%	80%	90%	<b>92%</b>
Graffiti Wipe	98%	95%	80%	80%	<b>88%</b>
<b>“Smokey Mountain” Split Face CMU</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	95%	70%	70%	<b>81%</b>
Graffiti Wipe	98%	50%	70%	60%	<b>70%</b>
<b>Blok-Guard® &amp; Graffiti Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	98%	90%	80%	<b>90%</b>
Graffiti Wipe	95%	95%	80%	80%	<b>88%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	95%	80%	80%	<b>88%</b>
Graffiti Wipe	98%	95%	80%	80%	<b>88%</b>

**Photographs – Graffiti Control**

**“Brick Rose” Split Face CMU; Before Graffiti Removal**



Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	Untreated Control
---	--	-------------------

**“Brick Rose” Split Face CMU; After Graffiti Removal**



Sure Klean® Fast Acting Stripper	Defacer Eraser® Graffiti Wipe	Sure Klean® Fast Acting Stripper	Defacer Eraser® Graffiti Wipe	Sure Klean® Fast Acting Stripper	Defacer Eraser® Graffiti Wipe
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control		Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II		Untreated Control	

**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 to moderate color enhancement to the submitted samples.

**Recommendations – Graffiti Control**

Recommendations for graffiti control treatment for each CMU submitted by County Materials Corporation, Roberts, WI 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 CMUs	* 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

**\*NOTE:** Sure Klean® Weather Seal Blok-Guard® & Graffiti Control is manufactured and marketed in compliance with USEPA AIM VOC regulations (40 CFR 59.403). This product may not be suitable for sale in states and districts with more restrictive AIM VOC regulations.

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.

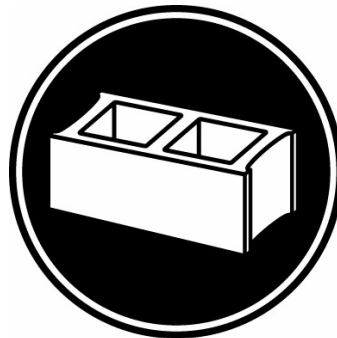


John Lancaster  
Project Testing Laboratory Technician



***PALLET TAG PROGRAM***  
*Laboratory Report*

County Materials Corporation  
1203 70<sup>th</sup> Ave.  
Roberts, WI 54023-8629  
CMU



*Project No. 0704-01 PTP*

*Prepared For:*  
**PROSOCO**  
SINCE 1939

*Prepared By:*  
AMT Laboratories  
May 2007