



# PROSOCO, Inc.

TABLE OF CONTENTS	
SAMPLES SUBMITTED	2
PURPOSE OF TEST	3
PRODUCTS EVALUATED	4-5
SECTION A – NEW CONSTRUCTION CLEANING	
DESCRIPTION OF PRODUCTS EVALUATED	6
TEST METHOD	6
TEST RESULTS	7-12
PHOTOGRAPH	
RECOMMENDATIONS	15
CONCLUSIONS	
SECTION B – LIMITING SURFACE ALTERATIONS	
DESCRIPTION OF PRODUCTS EVALUATED	
TEST METHOD	
TEST RESULTS	
CONCLUSIONS	25
RECOMMENDATIONS	
SECTION C - PROTECTIVE WATER REPELLENTS	
DESCRIPTION OF PRODUCTS EVALUATED	27
TEST METHODS	
TEST RESULTS	
PHOTOGRAPH	
CONCLUSIONS	
RECOMMENDATIONS	
SECTION D – GRAFFITI REPELLENCY	
DESCRIPTION OF PRODUCTS EVALUATED	
TEST METHOD	40
TEST RESULTS	
PHOTOGRAPH	
CONCLUSIONS	
RECOMMENDATIONS	51
ATTACHMENTS	

Technical Services TECH Note RILEM Test Method No. II.4 Product Data literature for all products evaluated





### PROSOCO, Inc.

Page 2

FOR:	James Holt	
cc:	Paul Tessier	

- SUBJECT: Jenkins Brick Company Coosada, AL
- DATE: November 15, 2004
- **PROJECT:** 0408-06 PTP

#### SAMPLES SUBMITTED: 33 types of clay brick, 5 of each type

Name	Finish	Color/Coating	Size
"Brown Vanderbilt"	Sand	Orange/Brown	2½" x 7½" x 2½"
"Chadwick QS"	Sand	Red	3" x 7½" x 2"
"Cumberland"	Wire-cut, Sand	Red/Gray	2½" x 7½" x 2½"
"Dark Princeton"	Sand	Dark Gray	2½" x 7½" x 2½"
"Menawa"	Sand, Engobe	Red	2½" x 7½" x 2½"
"Range Alahambra"	Bark Face	Red/Brown	2½" x 7½" x 2½"
"Range Sand"	Sand	Red	2½" x 7½" x 2½"
"Range Select"	Smooth	Red/Gray	2½" x 7½" x 2½"
"Red Colonial"	Sand	Red	2½" x 7½" x 2½"
"Red Sand"	Sand	Red	2½" x 7½" x 2½"
"Red Select"	Smooth	Red	2½" x 7½" x 2½"
"Red Wire-cut"	Wire-cut	Red	2½" x 7½" x 2½"
"Shakespeare"	Sand	Red	2½" x 7½" x 2½"
"Aspen QS"	Sand	Red w/ White Coat	3" x 7½" x 2"
"Bordeaux"	Wire-cut	Red/Brown	2½" x 7½" x 2½"
"Brandywine QS"	Sand, Slurry, Cut and Roll Back	Red	3" x 7½" x 2"
"Brookstone QS"	Sand, Slurry	Red/Brown	3" x 7½" x 2"
"Cloister"	Sand	Red/Brown	2½" x 7½" x 2½"
"Hampton QS"	Sand, Slurry	Red/Gray	3" x 7½" x 2"
"Inverness"	Sand	Red	2½" x 7½" x 2½"
"Mahogany"	Wire-cut, Sand, Slurry	Dark Red	2½" x 7½" x 2½"
"Major Mosby"	Sand	Light Red	2½" x 7½" x 2½"
"Monte Vista QS"	Sand	Gray/Red	3" x 7½" x 2"
"Mountain Brook QS"	Sand	Light Brown	3" x 7½" x 2"
"Myrtlewood"	Wire-cut, Sand	Red/Gray	2½" x 7½" x 2½"
"Old South"	Wire-cut, Sand	Light Red	2½" x 7½" x 2½"
"Red Cloister"	Sand	Red	2½" x 7½" x 2½"
"Red Richmond"	Sand	Red	2½" x 7½" x 2½"
"Salisbury QS"	Sand, Engobe	Red	3" x 7½" x 2"
"San Jose"	Slurry, Sand	Red w/ White Coat	2½" x 7½" x 2½"
"Shamrock"	Sand	Brown	2½" x 7½" x 2½"
"St. Charles"	Engobe	Light Red	2½" x 7½" x 2½"
"Woodbury QS"	Sand	Brown	3" x 7½" x 2"



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Page 3

### PURPOSE OF TESTING:

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Thirty-three types of clay brick were submitted to PROSOCO, Inc.'s Testing Laboratory with a request to determine if application of the products evaluated will produce any surface alteration during new construction cleaning operations. Additionally, the effectiveness of water repellents and graffiti repellents suitable for clay brick were evaluated.

**A. New Construction Cleaning** – Enviro Klean<sup>®</sup> Safety Klean and either Sure Klean<sup>®</sup> Vana Trol<sup>®</sup> or Sure Klean<sup>®</sup> 600 Detergent were evaluated for removal of laboratory applied mortar.

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 brick and filled with a wet mixture of Ash Grove<sup>®</sup> Type N cementitious mortar, The wet mortar-filled cylinder was allowed to remain in contact with the brick for 10 minutes before removal.

Soiled brick were allowed to dry before test cleaning.

Heavy deposits of mortar were removed with dry scraping after 24 hours. Prepared cleaning solutions were then evaluated for their effectiveness in removing any residual Ash Grove<sup>®</sup> Type N mortar after 7, 14, and 21 days of curing.

**B.** Limiting Surface Alterations – Enviro Klean<sup>®</sup> Safety Klean and either Sure Klean<sup>®</sup> Vana Trol<sup>®</sup> or Sure Klean<sup>®</sup> 600 Detergent were tested at various dilutions to determine if a cleaning program implemented to remove excess mortar and related new construction soiling would otherwise alter the appearance of cleaned surfaces. Surface Alteration was evaluated visually based upon perceived discoloration or erosion/etching of the masonry unit.

<u>Surface Finish Removal</u> is the visual examination of the brick comparing the surface finish of the untreated control surface to the surface finish cleaned with selected product(s) at given dilutions.

<u>Substrate Deterioration</u> is the visual examination of the brick comparing the surface of the untreated control to surfaces cleaned with selected product(s) at given dilutions looking for any potential erosion/digestion of the brick.

<u>Color Change</u> is the visual examination comparing the color of the untreated control surface to color of surfaces cleaned with selected products at given dilutions.

<u>Staining</u> is the visual examination for changes that are the result of a chemical reaction that leaves a staining precipitate.

**C. Water Repellent Evaluation -** Sure Klean<sup>®</sup> Weather Seal Blok-Guard<sup>®</sup> & Graffiti Control, Sure Klean<sup>®</sup> Weather Seal Siloxane PD, and Sure Klean<sup>®</sup> Weather Seal Siloxane WB Concentrate were evaluated on the submitted samples for their ability to provide water repellency.

**D. Graffiti Repellency Evaluation** – On the submitted clay brick, Sure Klean<sup>®</sup> Weather Seal Blok-Guard<sup>®</sup> & Graffiti Control was evaluated for its ability to provide graffiti control. Sure Klean<sup>®</sup> Fast Acting Stripper and Defacer Eraser<sup>®</sup> Graffiti Wipe were evaluated for their ability to remove graffiti.



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### PROSOCO, Inc.

Page 4

### PRODUCTS EVALUATED FOR CLEANING AND LIMITING SURFACE ALTERATIONS

SAMPLE	TREATMENT	DILUTION
"Brown Vanderbilt" "Chadwick QS" "Cumberland" "Dark Princeton" "Menawa" "Range Alahambra" "Range Sand"	Sure Klean <sup>®</sup> 600 Detergent	1:6, 1:8
"Range Select" "Red Colonial" "Red Sand" "Red Select" "Red Wire-cut" "Shakespeare"	Enviro Klean <sup>®</sup> Safety Klean	1:2, 1:3
"Aspen QS" "Bordeaux" "Brandywine QS" "Brookstone QS" "Cloister" "Hampton QS" "Inverness" "Mahogany" "Major Mosby" "Monte Vista QS"	Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6, 1:8
"Mountain Brook QS" "Myrtlewood" "Old South" "Red Cloister" "Red Richmond" "Salisbury QS" "San Jose" "Shamrock" "St. Charles" "Woodbury QS"	Enviro Klean <sup>®</sup> Safety Klean	1:2, 1:3





Page 5

### WATER REPELLENT PRODUCTS EVALUATED

SAMPLE	TREATMENT	DILUTION
	Sure Klean <sup>®</sup> Weather Seal Siloxane PD	Concentrate
All Submitted Clay Brick	Sure Klean <sup>®</sup> Weather Seal Siloxane WB Concentrate	1:9, 1:14
	Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control	Concentrate

Dilution ratios refer to mixtures of concentrated product : fresh water.

### **GRAFFITI CONTROL PRODUCTS EVALUATED**

SAMPLE	TREATMENT	DILUTION
All Submitted Clay Brick	Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control	Concentrate

### **GRAFFITI REMOVAL PRODUCTS EVALUATED**

SAMPLE	TREATMENT	DILUTION
All Submitted Clay	Sure Klean <sup>®</sup> Fast Acting Stripper	Concentrate
Brick	Defacer Eraser <sup>®</sup> Graffiti Wipe	Concentrate



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Page 6

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### SECTION A - NEW CONSTRUCTION CLEANING

#### **DESCRIPTION OF PRODUCTS EVALUATED – New Construction Cleaning**

These cleaning trials were conducted to determine the optimal cleaning/cure time combination to most efficiently remove Type N mortar from the submitted fired clay brick.

Type N mortar was prepared in compliance with the manufacturers instructions, applied to the brick surface and allowed to cure for 7, 14 and 21 days. Mortar removal was accomplished using chemical assistance and a high-pressure water rinse with pressure rinsing equipment. The removal of Type N masonry mortar was visually evaluated after 7, 14 and 21 days of curing.

**Sure Klean<sup>®</sup> Vana Trol<sup>®</sup>** - A concentrated acidic cleaner for new masonry surfaces that are subject to vanadium, manganese and other metallic stains. Use on: gray, brown, white, and most light-colored brick; natural stone; cast stone. Dissolves mortar smears and construction dirt quickly, leaving the masonry clean and uniform with no acid burning or streaking. Liquid concentrate for dilution with 4-10 parts water. Apply by brush or low-pressure spray.

**Sure Klean**<sup>®</sup> **600 Detergent** – A general purpose, concentrates acidic cleaner for brick, tile and concrete surfaces. 600 Detergent dissolves mortar smears and construction dirt quickly, leaving the masonry clean and uniform with no acid burning or streaking.

**Enviro Klean**<sup>®</sup> **Safety Klean** – An effective, safe alternative to acidic compounds for cleaning brick, tile, and concrete surfaces. Safety Klean rids new masonry construction of excess mortar, dirt and other common job site soiling. It's ideal for projects where traditional acidic cleaners are not allowed. Non-fuming Safety Klean contains no hydrochloric or other traditional inorganic acids and is safe for use on and around most metal surfaces. Always test. Additionally, it is up to 70 percent more effective than citric and glycolic acids, and 50 percent more effective than phosphoric acid.

#### **TEST METHOD – New Construction Cleaning**

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

- 1. Prewet the surface with water.
- 2. Apply the cleaner.

3.	Allow the appropriate dwell time, as specified.	
	Vana Trol <sup>®</sup>	3-5 minutes
	600 Detergent	3-5 minutes
	Safety Klean	
4.	Pressure rinse thoroughly. *	

\*Pressure rinsing was conducted at approximately 1300 psi with a warm water flow rate of 1.9 gallons per minute.



Page 7

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#### Test Results – New Construction Cleaning

#### "Brown Vanderbilt" Product Dilution 7 day 14 day 21 day 1:6 95% 100% 95% Sure Klean<sup>®</sup> 600 Detergent 1:8 90% 95% 95% 1:2 95% 90% 95% Enviro Klean<sup>®</sup> Safety Klean 1:3 95% 90% 90% "Chadwick QS" Product Dilution 7 day 14 day 21 day 1:6 100% 95% 95% Sure Klean<sup>®</sup> 600 Detergent 1:8 100% 95% 95% 100% 100% 95% 1:2 Enviro Klean<sup>®</sup> Safety Klean 1:3 100% 100% 95% "Cumberland" Product Dilution 7 day 14 day 21 day 95% 95% 95% 1:6 Sure Klean<sup>®</sup> 600 Detergent 1:8 95% 95% 95% 1:2 90% 90% 90% Enviro Klean<sup>®</sup> Safety Klean 1:3 90% 90% 90% "Dark Princeton" Product Dilution 7 day 14 day 21 day 1:6 95% 95% 95% Sure Klean<sup>®</sup> 600 Detergent 1:8 95% 95% 95% 1:2 95% 95% 95% Enviro Klean<sup>®</sup> Safety Klean 1:3 90% 95% 90% "Menawa" Product Dilution 7 day 14 day 21 day 100% 100% 100% 1:6 Sure Klean<sup>®</sup> 600 Detergent 1:8 100% 100% 100% 1:2 100% 100% 100% Enviro Klean<sup>®</sup> Safety Klean 1:3 100% 100% 100% "Range Alahambra" Product Dilution 7 day 14 day 21 day 95% 99% 95% 1:6 Sure Klean<sup>®</sup> 600 Detergent 1:8 95% 99% 95% 1:2 90% 95% 95% Enviro Klean<sup>®</sup> Safety Klean 1:3 95% 95% 90%

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Page 8

### **Test Results – New Construction Cleaning**

	"F	Range Sand"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> 600 Detergent	1:6	90%	95%	95%
Sule Klean 600 Deleigent	1:8	90%	95%	95%
Enviro Klean <sup>®</sup> Safety Klean	1:2	95%	95%	95%
Enviro Riedii Salety Riedii	1:3	95%	95%	95%
	"R	ange Select"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> 600 Detergent	1:6	100%	100%	100%
Sure Klean 600 Delergent	1:8	100%	100%	100%
Envire Klean <sup>®</sup> Cofety Klean	1:2	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:3	100%	100%	100%
	"R	ed Colonial"		
Product	Dilution	7 day	14 day	21 day
Cure Kleen <sup>®</sup> COO Determent	1:6	100%	95%	100%
Sure Klean <sup>®</sup> 600 Detergent	1:8	99%	100%	95%
Envire Klean <sup>®</sup> Cofety Klean	1:2	99%	100%	95%
Enviro Klean <sup>®</sup> Safety Klean -	1:3	99%	95%	100%
		Red Sand"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> 600 Detergent	1:6	100%	95%	95%
Sule Rieall 000 Deleigeni	1:8	95%	95%	95%
Enviro Klean <sup>®</sup> Safety Klean	1:2	95%	95%	95%
Enviro Riean Salety Riean	1:3	95%	90%	90%
	"	Red Select"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> 600 Detergent	1:6	100%	100%	100%
Sule Rieall 000 Deleigent	1:8	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	100%
Enviro Riedin Salety Riedin	1:3	100%	100%	100%
	"R	ed Wire-cut"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> 600 Detergent	1:6	100%	99%	99%
Sure Mean 000 Deleigent	1:8	100%	99%	95%
Enviro Kloop <sup>®</sup> Sofoty Kloop	1:2	100%	99%	95%
Enviro Klean <sup>®</sup> Safety Klean -	1:3	100%	99%	95%

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### Page 9

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### **Test Results – New Construction Cleaning**

	"S	hakespeare"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> 600 Detergent	1:6	100%	95%	95%
Sure Klean 600 Delergent	1:8	100%	95%	95%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	95%	95%
Enviro Riedi Salety Riedi	1:3	100%	95%	90%
	"	Aspen QS"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	100%	100%	100%
	1:8	100%	100%	95%
Envire Klean <sup>®</sup> Cafety Klean	1:2	100%	100%	95%
Enviro Klean <sup>®</sup> Safety Klean -	1:3	100%	100%	95%
		Bordeaux"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	100%	95%	95%
Sure Klean Vana Troi	1:8	100%	95%	90%
Tau ing Klasse <sup>®</sup> Osfatu Klasse	1:2	95%	95%	95%
Enviro Klean <sup>®</sup> Safety Klean -	1:3	100%	95%	95%
	"Bra	andywine QS"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	100%	95%	95%
	1:8	95%	95%	95%
Tau ing Klasse <sup>®</sup> Osfatu Klasse	1:2	100%	95%	95%
Enviro Klean <sup>®</sup> Safety Klean -	1:3	90%	95%	90%
	"Br	ookstone QS"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	100%	100%	95%
	1:8	100%	100%	95%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	95%	90%
Elivito Riediti Salety Riedit	1:3	95%	95%	90%
		"Cloister"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	100%	100%	95%
	1:8	100%	95%	90%
Enviro Klean <sup>®</sup> Safety Klean -	1:2	100%	100%	90%

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Page 10

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### **Test Results – New Construction Cleaning**

	"	Hampton QS"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	100%	95%	95%
Sure Klean Vana Troi	1:8	95%	95%	95%
Enviro Klean <sup>®</sup> Safety Klean	1:2	95%	95%	95%
Enviro Riean Salety Riean	1:3	100%	100%	95%
		"Inverness"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	95%	95%	95%
Sule Neall Valla 1101	1:8	95%	90%	90%
Enviro Klean <sup>®</sup> Safety Klean	1:2	90%	95%	95%
Inviro Riean Salety Riean	1:3	90%	90%	90%
	·	"Mahogany"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	95%	100%	100%
Sure Klean Vana Troi	1:8	95%	100%	100%
Truine Kleen <sup>®</sup> Sefety Kleen	1:2	95%	100%	95%
Enviro Klean <sup>®</sup> Safety Klean	1:3	90%	95%	95%
	"	Major Mosby"	•	
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	95%	95%	95%
	1:8	90%	95%	90%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	95%	95%
Inviro Riean Salety Riean	1:3	100%	95%	90%
	"М	onte Vista QS"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	100%	100%	95%
	1:8	100%	100%	95%
Enviro Klean <sup>®</sup> Safety Klean	1:2	95%	100%	95%
Enviro Riean Salety Riean	1:3	95%	95%	95%
	"Mou	untain Brook QS"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	100%	100%	100%
	1:8	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean -	1:2	100%	100%	100%
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Page 11

### **Test Results – New Construction Cleaning**

	"N	Myrtlewood"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	100%	100%	100%
Sule Niedli Valla 1101	1:8	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	100%
Enviro Riedii Salety Riedii	1:3	100%	100%	100%
	"	Old South"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	100%	100%	100%
Sule Neall Valla 110	1:8	95%	95%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:2	95%	95%	95%
Enviro Riean Salety Riean	1:3	95%	100%	95%
	"R	Red Cloister"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	100%	95%	95%
Sure Klean vana Troi	1:8	100%	95%	95%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	95%
Enviro Klean Salety Klean	1:3	100%	100%	95%
	"Re	ed Richmond"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	95%	99%	95%
	1:8	95%	95%	95%
Enviro Klean <sup>®</sup> Safety Klean	1:2	95%	95%	95%
	1:3	95%	95%	90%
	"S	alisbury QS"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	100%	100%	95%
Sule Riedi Valla 110	1:8	100%	100%	95%
Enviro Klean <sup>®</sup> Safety Klean	1:2	95%	95%	95%
Enviro Klean Salety Klean	1:3	95%	90%	90%
	,	'San Jose"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	100%	100%	100%
	1:8	99%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:2	99%	100%	95%
Enviro Klean <sup>®</sup> Safety Klean -	1:3	99%	100%	95%

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Page 12

### Test Results – New Construction Cleaning

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		"Shamrock"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	100%	100%	95%
	1:8	100%	100%	95%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	95%
Enviro Riean Salely Riean	1:3	100%	95%	95%
		"St. Charles"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	100%	100%	100%
	1:8	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	100%
Enviro Riean Salely Riean	1:3	100%	100%	100%
	"\	Noodbury QS"		
Product	Dilution	7 day	14 day	21 day
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	99%	99%	95%
Sule Riedii Valla 1101	1:8	95%	99%	95%
Enviro Klean <sup>®</sup> Safety Klean	1:2	95%	99%	95%
Enviro Riean Salety Riean	1:3	95%	95%	95%

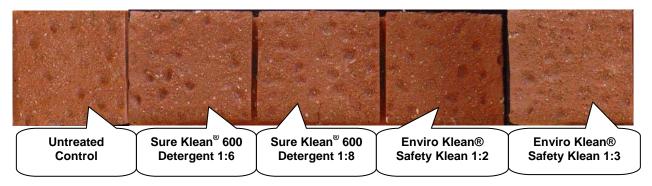




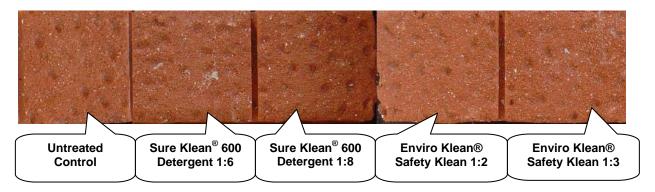
Page 13

### **PHOTOGRAPHS – New Construction Cleaning**

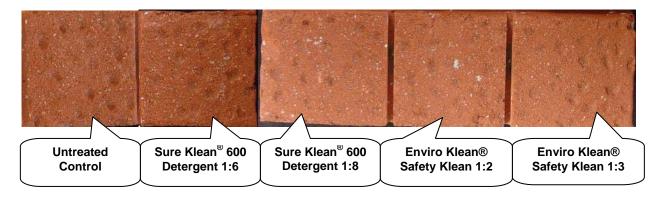




### "Red Colonial" Clay Brick; 14 day cleaning



#### "Red Colonial" Clay Brick; 21 day cleaning





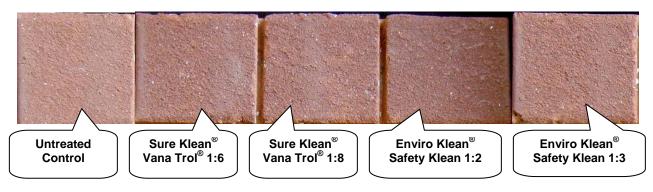


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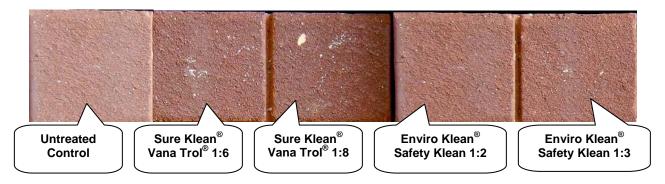
Page 14

### **PHOTOGRAPHS – New Construction Cleaning**

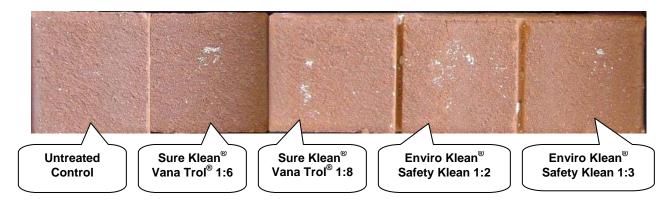




### "Red Cloister" Clay Brick; 14 day cleaning



### "Red Cloister" Clay Brick; 21 day cleaning







### **PROSOCO**, Inc.

#### **CONCLUSIONS – New Construction Cleaning**

Based on the test results, all PROSOCO, Inc. products tested performed well in removing excess mortar from the submitted clay brick. These products performed well in removing the mortar soils even after allowing the mortar to remain on the surface of the brick for 21 days.

It is recommended that the selected cleaners always be used in the lowest possible concentration. They should be rinsed with the lowest pressure of water as practical, at least 400 psi, to minimize removal of the decorative finish. Excessive pressure and water volume may combine to damage or remove decorative finishes. To facilitate easier removal of excess mortar while minimizing any potential surface alterations to the decorative finish, clean within 7 days of construction.

#### **RECOMMENDATIONS**– New Construction Cleaning

Recommendations for cleaning for each type of clay brick submitted by Jenkins Brick Company, Coosada, AL, are provided in the charts below. Recommendations are based on the optimum dilution for complete removal of mortar while limiting surface alterations.

Brick Type	New Construction Cleaning (Type N Mortar, 21 Days)
"Brown Vanderbilt" "Chadwick QS" "Cumberland" "Dark Princeton" "Menawa" "Range Alahambra" "Range Sand" "Range Select" "Red Colonial" "Red Sand" "Red Select" "Red Wire-cut" "Shakespeare"	Sure Klean <sup>®</sup> 600 Detergent (1:8) OR Enviro Klean <sup>®</sup> Safety Klean (1:3)





PROSOCO, Inc.

**RECOMMENDATIONS-** New Construction Cleaning (continued):

Brick Type	New Construction Cleaning (Type N Mortar, 21 Days)
"Aspen QS" "Bordeaux" "Brandywine QS" "Brookstone QS" "Cloister" "Hampton QS" "Inverness" "Mahogany" "Major Mosby" "Monte Vista QS" "Mountain Brook QS" "Mountain Brook QS" "Myrtlewood" "Old South" "Red Cloister" "Red Richmond" "Salisbury QS" "Shamrock" "St. Charles" "Woodbury QS"	Sure Klean <sup>®</sup> Vana Trol <sup>®</sup> (1:8) OR Enviro Klean <sup>®</sup> Safety Klean (1:3)

Excessive pressure and water volume may combine to damage or remove decorative finishes. To facilitate easier removal of excess mortar and construction dirt while minimizing any potential surface alterations to the decorative finish, clean within 7 days of construction. Rinsing with high-pressure spray (400-800 psi) is recommended.

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



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### PROSOCO, Inc.

Page 17

### SECTION B – LIMITING SURFACE ALTERATIONS

#### **DESCRIPTION OF PRODUCTS EVALUATED – Limiting Surface Alterations**

**Sure Klean<sup>®</sup> Vana Trol<sup>®</sup> -** A concentrated acidic cleaner for new masonry surfaces that are subject to vanadium, manganese and other metallic stains. Designed for use on gray, brown, white and most light-colored brick, natural stone and cast stone. Dissolves mortar smears and construction dirt quickly, leaving the masonry clean and uniform with no acid burning or streaking. Liquid concentrate for dilution with 4-10 parts water. Apply by brush or low-pressure spray.

**Sure Klean**<sup>®</sup> **600 Detergent** – A general purpose, concentrates acidic cleaner for brick, tile and concrete surfaces. 600 Detergent dissolves mortar smears and construction dirt quickly, leaving the masonry clean and uniform with no acid burning or streaking.

**Enviro Klean**<sup>®</sup> **Safety Klean** – An effective, safe alternative to acidic compounds for cleaning brick, tile, and concrete surfaces. Safety Klean rids new masonry construction of excess mortar, dirt and other common job site soiling. It's ideal for projects where traditional acidic cleaners are not allowed. Non-fuming Safety Klean contains no hydrochloric or other traditional inorganic acids and is safe for use on and around most metal surfaces. Always test. Additionally, it is up to 70 percent more effective than citric and glycolic acids, and 50 percent more effective than phosphoric acid.

#### **TEST METHOD – Limiting Surface Alterations:**

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

- 1. Prewet the surface with water.
- 2. Apply the cleaner.

3.	Allow the appropriate dwell time, as specified.	
	Vana Trol <sup>®</sup>	3-5 minutes
	600 Detergent	3-5 minutes
	Safety Klean	3-5 minutes
4.	Pressure rinse thoroughly. *	

\* Pressure rinsing was conducted at approximately 1300 psi with a warm water flow rate of 1.9 gallons per minute.





# PROSOCO, Inc.

Page 18

### **TEST RESULTS – Limiting Surface Alterations**

Substrate: Clay brick	Pigment Color:	"Brown Vanderbilt"				
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	
Sure Klean <sup>®</sup> 600 Detergent	1:6	0	0	0	0	
Sure Klean <sup>®</sup> 600 Detergent	1:8	0	0	0	0	
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0	
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0	
Substrate: Clay brick	Pigment Color:	"Chadwick QS"				
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	
Sure Klean <sup>®</sup> 600 Detergent	1:6	0	0	0	0	
Sure Klean <sup>®</sup> 600 Detergent	1:8	0	0	0	0	
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0	
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0	
Substrate: Clay brick	Pigment Color: "Cumberland"					
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	
Sure Klean <sup>®</sup> 600 Detergent	1:6	0	0	0	0	
Sure Klean <sup>®</sup> 600 Detergent	1:8	0	0	0	0	
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0	
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0	
Substrate: Clay brick	Pigment Color:	"Dark Princeton"				
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	
Sure Klean <sup>®</sup> 600 Detergent	1:6	0	0	0	0	
Sure Klean <sup>®</sup> 600 Detergent	1:8	0	0	0	0	
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0	
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0	
Substrate: Clay brick	Pigment Color:	"Menawa"				
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	
Sure Klean <sup>®</sup> 600 Detergent	1:6	0	0	0	0	
Sure Klean <sup>®</sup> 600 Detergent	1:8	0	0	0	0	
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0	
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0	
	0 – No change 3 – change – beavy					

0 – No change

3 – change – heavy

4 - change - excessive

1 – change – slight 2 – change – moderate



# PALLET TAG PROGRAM LABORATORY REPORT



Page 19

### **TEST RESULTS – Limiting Surface Alterations**

Substrate: Clay brick	Pigment Color:	"Range Alahambra"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> 600 Detergent	1:6	0	0	0	0
Sure Klean <sup>®</sup> 600 Detergent	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"Range Sand"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> 600 Detergent	1:6	0	0	0	0
Sure Klean <sup>®</sup> 600 Detergent	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"Range Select"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> 600 Detergent	1:6	0	0	0	0
Sure Klean <sup>®</sup> 600 Detergent	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"Red Colonial"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> 600 Detergent	1:6	0	0	0	0
Sure Klean <sup>®</sup> 600 Detergent	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"Red Sand"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> 600 Detergent	1:6	0	0	0	0
Sure Klean <sup>®</sup> 600 Detergent	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
	0 – No change		3 – change – h	eavy	
	A 1		A 1 -		

3 – change – heavy 4 - change - excessive

1 – change – slight

2 - change - moderate





### **TEST RESULTS – Limiting Surface Alterations**

Substrate: Clay brick	Pigment Color:	"Red Select"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> 600 Detergent	1:6	0	0	0	0
Sure Klean <sup>®</sup> 600 Detergent	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"Red Wire-cut"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> 600 Detergent	1:6	0	0	0	0
Sure Klean <sup>®</sup> 600 Detergent	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"Shakespeare"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> 600 Detergent	1:6	0	0	0	0
Sure Klean <sup>®</sup> 600 Detergent	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"Aspen QS"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	2	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	1	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	2	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	1	0	0	0
Substrate: Clay brick	Pigment Color:	"Bordeaux"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	0	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
	0 – No change		3 – change – h	eavy	

1 - change - slight

4 - change - excessive

2 - change - moderate





### PROSOCO, Inc.

### **TEST RESULTS – Limiting Surface Alterations**

Substrate: Clay brick	Pigment Color:	"Brandywine QS"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	0	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"Brookstone QS"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	0	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"Cloister"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	0	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"Hampton QS"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	0	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"Inverness"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	0	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
	0 – No change		3 – change – h	eavy	

) – No change

– change – heavy

1 – change – slight

2 - change - moderate





### PROSOCO, Inc.

Page 22

### **TEST RESULTS – Limiting Surface Alterations**

Substrate: Clay brick	Pigment Color:	"Mahogany"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	0	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"Major Mosby"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	0	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"Monte Vista QS"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	0	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"Mountain Brook QS"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	0	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"Myrtlewood"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	0	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
	0 – No change		3 – change – h	eavy	

1 – change – slight

3 – change – heavy

hange – slight

2 - change - moderate





### PROSOCO, Inc.

Page 23

### **TEST RESULTS – Limiting Surface Alterations**

Substrate: Clay brick	Pigment Color:	"Old South"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	0	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"Red Cloister"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	0	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"Red Richmond"		·	
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	0	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"Salisbury QS"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	0	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"San Jose"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	2	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	1	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	2	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	1	0	0	0
	0 – No change		3 – change – h	eavy	

1 - change - slight

2 - change - moderate





### PROSOCO, Inc.

### **TEST RESULTS – Limiting Surface Alterations**

Substrate: Clay brick Pigment Color: "Shamrock"					
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	0	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color:	"St. Charles"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	0	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0
Substrate: Clay brick	Pigment Color: "Woodbury QS"				
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:6	0	0	0	0
Sure Klean <sup>®</sup> Vana Trol <sup>®</sup>	1:8	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	0	0	0	0

0 – No change

3 - change - heavy

1 - change - slight

2 - change - moderate





### PROSOCO, Inc.

### **CONCLUSIONS – Limiting Surface Alterations**

Test results indicate that the tested cleaners removed slight to moderate amounts of the surface finish from the face of the "San Jose" and "Aspen QS" clay bricks. The products tested however caused no noticeable surface alterations on the other submitted clay brick. It is recommended that the selected cleaners always be used in the lowest possible concentration. They should be rinsed with the lowest pressure of water as practical to minimize removal of the decorative finish. Excessive pressure, water volume, and agitation may combine to damage or remove decorative finishes. To facilitate easier removal of excess mortar and construction dirt while minimizing any potential surface alterations to the decorative finish, clean within 7 days of construction.

### **RECOMMENDED PRODUCTS AND DILUTIONS – Limiting Surface Alterations**

Product recommendations for limiting surface alterations for each type of clay brick submitted by Jenkins Brick Company, Coosada, AL, are provided in the charts below. Recommendations are based on the optimum dilution for complete removal of mortar while limiting surface alterations.

Brick Type	Recommended Products
"Brown Vanderbilt" "Chadwick QS" "Cumberland" "Dark Princeton" "Menawa" "Range Alahambra" "Range Sand" "Range Select" "Red Colonial" "Red Sand" "Red Select" "Red Wire-cut" "Shakespeare"	Sure Klean <sup>®</sup> 600 Detergent (1:8) OR Enviro Klean <sup>®</sup> Safety Klean (1:3)





### **RECOMMENDED PRODUCTS AND DILUTIONS – Limiting Surface Alterations (continued):**

Brick Type	Recommended Products
"Aspen QS" "Bordeaux" "Brandywine QS" "Brookstone QS" "Cloister" "Hampton QS" "Inverness" "Mahogany" "Major Mosby" "Monte Vista QS" "Mountain Brook QS" "Mountain Brook QS" "Myrtlewood" "Old South" "Red Cloister" "Red Richmond" "Salisbury QS" "San Jose" "Shamrock" "St. Charles" "Woodbury QS"	Sure Klean <sup>®</sup> Vana Trol <sup>®</sup> (1:8) OR Enviro Klean <sup>®</sup> Safety Klean (1:3)

Excessive pressure and water volume may combine to damage or remove decorative finishes. To facilitate easier removal of excess mortar and construction dirt while minimizing any potential surface alterations to the decorative finish, clean within 7 days of construction. Rinsing with high-pressure spray (400-800 psi) is recommended.

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

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### PROSOCO, Inc.

Page 27

### **SECTION C - 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

#### **DESCRIPTIONS OF PRODUCTS EVALUATED - Protective Water Repellents:**

**Sure Klean<sup>®</sup> Weather Seal Siloxane PD** – A ready-to-use, water-based silane/siloxane water repellent for concrete, GFRC, and most masonry and stucco surfaces. Siloxane PD penetrates more deeply than conventional water repellents. It helps masonry resist cracking, spalling, staining, and other damage related to water intrusion. Low odor and alkaline stable, Siloxane PD is ideal for field and in-plant application.

**Sure Klean<sup>®</sup> Weather Seal Siloxane WB Concentrate** – A concentrated water repellent designed for dilution with fresh water at the jobsite. A solvent-free blend of silanes and oligomeric alkoxysiloxanes, it mixes easily with water to produce a penetrating water repellent ideal for application to dense or porous masonry surfaces.

**Sure Klean<sup>®</sup> Weather Seal Blok-Guard<sup>®</sup> & Graffiti Control** – A clear, solvent-based silicone elastomer formulated to weatherproof custom masonry units, cast stone, architectural concrete block, pre-cast concrete, wood and porous masonry. Blok-Guard & Graffiti Control penetrates and fills pores to prevent water penetration through exterior walls exposed to normal weathering. Blok-Guard & Graffiti Control has excellent UV stability and provides long-lasting protection against water penetration and many types of graffiti. Easy to apply with low-pressure spray, brush or roller.

#### **SAMPLE PREPARATION - Protective Water Repellents:**

The submitted brick were cut, air-dried, and allowed to reabsorb atmospheric humidity for at least 24 hours prior to treatment. The treatment method adhered to the 2004 PROSOCO, Inc. Product Guide. All treatments were allowed to cure for at least 3 days prior to testing.





### **PROSOCO**, Inc.

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

#### Water Absorption Tube Test: RILEM II.4, 5.0 milliliters, 20 minutes

The water absorption tube test simulating wind driven and wind blown rain conditions was performed. Tests were run with 5.0-milliliter head pressures. Filled to 5 milliliters, a water absorption tube produces a 98 mph dynamic wind pressure. See RILEM II.4 Tech Note for additional information.

The ranking system used to evaluate the effectiveness of the products applied to each submitted sample is as follows:

**AA** = "Above Average" correlates to less than or equal to 20% of the maximum untreated absorption.

 $\underline{\mathbf{A}}$  = "Average" correlates to less than or equal to 50% of the maximum untreated absorption.

**<u>BA</u>** = "Below Average" correlates to greater than 50% of the maximum untreated absorption.

EXAMPLE: If RILEM tubes applied to an untreated sample result in loss of 5 ml of water or more, then:

A rating of <u>AA</u> Above Average water repellent performance would require loss of no more than 5 ml X 20% = 1 ml.

A rating of <u>A</u> Average water repellent performance would require loss of no more than 5 ml X 50% = 2.5ml.

A rating of <u>**BA**</u> Below Average water repellent performance would be reported for treatments which result in a loss of more than 50% X 5ml = 2.5ml+.



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### PROSOCO, Inc.

Page 29

### **TEST RESULTS: Protective Water Repellents**

Water Absorption Tube Test: RILEM II.4, 5.0 milliliters, 20 minutes

<u>AA</u> = Above Average

 $\underline{A}$  = Average

"Brown Vanderbilt"	Results in mL loss	Panking
Untreated Control		
Weather Seal Siloxane PD	-1.0 -0.1	 AA
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.1	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.3	<u>AA</u>
"Chadwick QS"	Results in mL loss	Ranking
Untreated Control	-4.3	
Weather Seal Siloxane PD	-0.5	<u>AA</u>
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.2	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.5	<u>AA</u>
"Cumberland"	Results in mL loss	Ranking
Untreated Control	-5.0	
Weather Seal Siloxane PD	-2.0	<u>A</u>
Weather Seal Siloxane WB (1:9)	-0.1	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.1	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.1	<u>AA</u>
"Dark Princeton"	Results in mL loss	Ranking
Untreated Control	-3.9	
Weather Seal Siloxane PD	-1.7	<u>A</u>
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.0	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	<u>AA</u>
"Menawa"	Results in mL loss	Ranking
Untreated Control	-1.1	
Weather Seal Siloxane PD	-0.2	<u>AA</u>
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.0	AA
Blok-Guard <sup>®</sup> & Graffiti Control	-0.5	<u>AA</u>



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Page 30

#### **TEST RESULTS: Protective Water Repellents**

Water Absorption Tube Test: RILEM II.4, 5.0 milliliters, 20 minutes

<u>AA</u> = Above Average

 $\underline{A}$  = Average

"Range Alahambra"	Results in mL loss	Ranking
Untreated Control	-0.6	
Weather Seal Siloxane PD	-0.0	AA
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.0	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	<u>AA</u> AA
"Range Sand"	Results in mL loss	
Untreated Control	-0.2	
Weather Seal Siloxane PD	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.0	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	<u>AA</u>
"Range Select"	Results in mL loss	Ranking
Untreated Control	-0.0	
Weather Seal Siloxane PD	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.0	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	<u>AA</u>
"Red Colonial"	Results in mL loss	Ranking
Untreated Control	-0.7	
Weather Seal Siloxane PD	-0.0	AA
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.0	AA
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	<u>AA</u>
"Red Sand"	Results in mL loss	Ranking
Untreated Control	-1.5	
Weather Seal Siloxane PD	-0.1	<u>AA</u>
Weather Seal Siloxane WB (1:9)	-0.1	AA
Weather Seal Siloxane WB (1:14)	-0.2	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	<u>AA</u>





Page 31

### **TEST RESULTS: Protective Water Repellents**

Water Absorption Tube Test: RILEM II.4, 5.0 milliliters, 20 minutes

<u>AA</u> = Above Average

 $\underline{A}$  = Average

"Red Select"	Results in mL loss	Ranking
Untreated Control	-1.6	
Weather Seal Siloxane PD	-0.1	<u>AA</u>
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.0	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	<u>AA</u>
"Red Wire-cut"	Results in mL loss	Ranking
Untreated Control	-0.7	
Weather Seal Siloxane PD	-0.1	<u>AA</u>
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.0	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.1	<u>AA</u>
"Shakespeare"	Results in mL loss	Ranking
Untreated Control	-0.6	
Weather Seal Siloxane PD	-0.0	AA
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.1	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	<u>AA</u>
"Aspen QS"	Results in mL loss	Ranking
Untreated Control	-5.0	
Weather Seal Siloxane PD	-0.1	AA
Weather Seal Siloxane WB (1:9)	-0.0	AA
Weather Seal Siloxane WB (1:14)	-0.6	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	<u>AA</u>
"Bordeaux"	Results in mL loss	Ranking
Untreated Control	-5.0	
Weather Seal Siloxane PD	-0.9	<u>AA</u>
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.0	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.2	<u>AA</u>



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### PROSOCO, Inc.

Page 32

### **TEST RESULTS: Protective Water Repellents**

Water Absorption Tube Test: RILEM II.4, 5.0 milliliters, 20 minutes

<u>AA</u> = Above Average

 $\underline{A}$  = Average

"Pronduzino OS"	Beculto in ml. less	Donking
"Brandywine QS"	Results in mL loss	Ranking
Untreated Control	-0.1	
Weather Seal Siloxane PD	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.6	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	<u>AA</u>
"Brookstone QS"	Results in mL loss	Ranking
Untreated Control	-0.7	
Weather Seal Siloxane PD	-0.1	<u>AA</u>
Weather Seal Siloxane WB (1:9)	-0.0	AA
Weather Seal Siloxane WB (1:14)	-0.0	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.3	<u>AA</u>
"Cloister"	Results in mL loss	Ranking
Untreated Control	-5.0	
Weather Seal Siloxane PD	-1.8	<u>A</u>
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.0	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-1.2	<u>A</u>
"Hampton QS"	Results in mL loss	Ranking
Untreated Control	-0.1	
Weather Seal Siloxane PD	-0.7	<u>AA</u>
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.0	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.2	<u>AA</u>
"Inverness"	Results in mL loss	Ranking
Untreated Control	-5.0	
Weather Seal Siloxane PD	-0.1	<u>AA</u>
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.1	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	AA



### PROSOCO, Inc.

Page 33

### **TEST RESULTS: Protective Water Repellents**

### Water Absorption Tube Test: RILEM II.4, 5.0 milliliters, 20 minutes

<u>AA</u> = Above Average

<u>A</u> = Average

"Mahogany"	Results in mL loss	Ranking
Untreated Control	-0.7	
Weather Seal Siloxane PD	-0.3	AA
Weather Seal Siloxane WB (1:9)	-0.0	AA
Weather Seal Siloxane WB (1:14)	-0.0	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	<u>AA</u>
"Major Mosby"	Results in mL loss	Ranking
Untreated Control	-5.0	
Weather Seal Siloxane PD	-0.4	<u>AA</u>
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.0	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	<u>AA</u>
"Monte Vista QS"	Results in mL loss	Ranking
Untreated Control	-5.0	
Weather Seal Siloxane PD	-0.5	<u>AA</u>
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.0	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.3	<u>AA</u>
"Mountain Brook QS"	Results in mL loss	Ranking
Untreated Control	-5.0	
Weather Seal Siloxane PD	-1.2	<u>A</u>
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.0	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.3	<u>AA</u>
"Myrtlewood"	Results in mL loss	Ranking
Untreated Control	-4.8	
Weather Seal Siloxane PD	-1.0	<u>AA</u>
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.0	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	<u>AA</u>



Page 34

### **TEST RESULTS: Protective Water Repellents**

Water Absorption Tube Test: RILEM II.4, 5.0 milliliters, 20 minutes

### <u>AA</u> = Above Average

 $\underline{A}$  = Average

"Old South"	Results in mL loss	Ranking
Untreated Control	-3.4	
Weather Seal Siloxane PD	-1.8	Α
Weather Seal Siloxane WB (1:9)	-0.0	AA
Weather Seal Siloxane WB (1:14)	-0.1	AA
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	AA
"Red Cloister"	Results in mL loss	
Untreated Control	-0.5	
Weather Seal Siloxane PD	-0.0	AA
Weather Seal Siloxane WB (1:9)	-0.0	AA
Weather Seal Siloxane WB (1:14)	-0.0	AA
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	AA
"Red Richmond"	Results in mL loss	Ranking
Untreated Control	-1.2	
Weather Seal Siloxane PD	-0.4	AA
Weather Seal Siloxane WB (1:9)	-0.0	AA
Weather Seal Siloxane WB (1:14)	-0.0	AA
Blok-Guard <sup>®</sup> & Graffiti Control	-0.3	<u>AA</u>
"Salisbury QS"	Results in mL loss	Ranking
Untreated Control	-0.5	-
Weather Seal Siloxane PD	-0.1	AA
Weather Seal Siloxane WB (1:9)	-0.0	AA
Weather Seal Siloxane WB (1:14)	-0.0	AA
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	<u>AA</u>
"San Jose"	Results in mL loss	Ranking
Untreated Control	-5.0	
Weather Seal Siloxane PD	-2.1	<u>A</u>
Weather Seal Siloxane WB (1:9)	-0.0	<u>AA</u>
Weather Seal Siloxane WB (1:14)	-0.0	<u>AA</u>
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	AA



Page 35

### **TEST RESULTS: Protective Water Repellents**

Water Absorption Tube Test: RILEM II.4, 5.0 milliliters, 20 minutes

### <u>AA</u> = Above Average

 $\underline{A}$  = Average

"Shamrock"	Results in mL loss	Ranking
Untreated Control	-5.0	
Weather Seal Siloxane PD	-1.8	<u>A</u>
Weather Seal Siloxane WB (1:9)	-0.0	AA
Weather Seal Siloxane WB (1:14)	-0.0	AA
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	<u>AA</u>
"St. Charles"	Results in mL loss	Ranking
Untreated Control	-0.6	
Weather Seal Siloxane PD	-0.3	AA
Weather Seal Siloxane WB (1:9)	-0.0	AA
Weather Seal Siloxane WB (1:14)	-0.0	AA
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	AA
"Woodbury QS"	Results in mL loss	Ranking
Untreated Control	-0.6	
Weather Seal Siloxane PD	-0.5	AA
Weather Seal Siloxane WB (1:9)	-0.0	AA
Weather Seal Siloxane WB (1:14)	-0.0	AA
Blok-Guard <sup>®</sup> & Graffiti Control	-0.0	AA

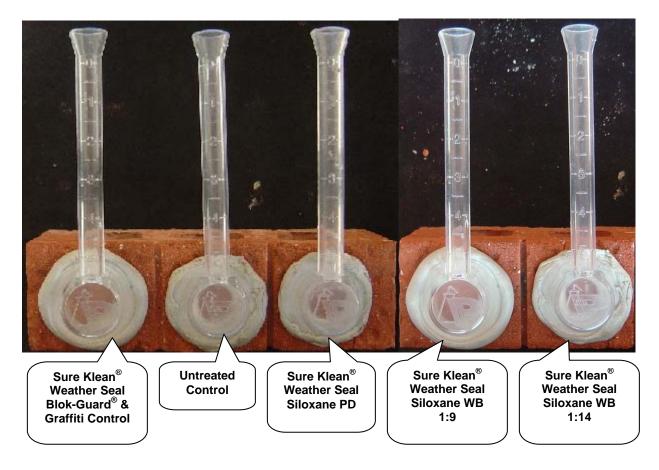




Page 36

#### **PHOTOGRAPH – Water Repellents**

### "Red Colonial" Clay Brick; RILEM Testing







### **PROSOCO**, Inc.

Page 37

#### **CONCLUSIONS – Protective Water Repellents:**

Test results indicate that at least one of the water repellents tested exhibited above average water repellency on all submitted clay brick. In addition, Sure Klean<sup>®</sup> Weather Seal Blok-Guard<sup>®</sup> & Graffiti Control enhanced the appearance of the clay brick.

#### **RECOMMENDATIONS – Protective Water Repellents:**

Recommendations for water repellent treatments for each type of clay brick submitted by Jenkins Brick Company, Coosada, AL, are provided in the charts below. Recommendations are based on the treatments that proved most effective and can provide water repellency on all types indicated.

Brick Type	Water Repellent
"Brown Vanderbilt" "Chadwick QS" "Menawa" "Range Alahambra" "Range Sand" "Red Colonial" "Red Sand" "Red Select" "Red Wire-cut" "Shakespeare" "Aspen QS" "Brodeaux" "Brandywine QS" "Brookstone QS" "Brookstone QS" "Hampton QS" "Hampton QS" "Mahogany" "Mahogany" "Major Mosby" "Monte Vista QS" "Myrtlewood" "Red Richmond" "Salisbury QS" "St. Charles" "Woodbury QS"	Sure Klean <sup>®</sup> Weather Seal Siloxane WB Concentrate (1:9), (1:14) OR Sure Klean® Weather Seal Siloxane PD OR Sure Klean® Weather Seal Blok-Guard® & Graffiti Control





Page 38

#### **RECOMMENDATIONS – Protective Water Repellents (continued):**

Brick Type	Water Repellent
"Cumberland" "Dark Princeton" "Mountain Brook QS" "Old South" "San Jose" "Shamrock"	Sure Klean <sup>®</sup> Weather Seal Siloxane WB Concentrate (1:9), (1:14) OR Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control
"Cloister"	Sure Klean <sup>®</sup> Weather Seal Siloxane WB Concentrate (1:9), (1:14)

It must be pointed out that in any installation, the brick are a single component of the masonry facade. The ability of a water repellent treatment to prevent the ingress of water is affected by a variety of other factors. Therefore, on-site testing should be carried out for all installations with the recommended systems to ensure job site workmanship yields equivalent results.

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.





Page 39

#### SECTION D - GRAFFITI CONTROL

#### DESCRIPTION OF PRODUCTS EVALUATED

These trials were conducted to determine the optimal graffiti control treatment.

#### **Graffiti Control Treatments**

**Sure Klean<sup>®</sup> Weather Seal Blok-Guard<sup>®</sup> & Graffiti Control** – A clear, solvent-based silicone elastomer formulated to weatherproof concrete block and other porous masonry material. Sure Klean<sup>®</sup> Weather Seal Blok-Guard<sup>®</sup> & Graffiti Control protects masonry surfaces from repeated graffiti attacks without altering the natural appearance.

#### Products Evaluated for Graffiti Removal

**Defacer Eraser<sup>®</sup> 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, wood and metal surfaces.

**Sure Klean<sup>®</sup> 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)





### **PROSOCO**, Inc.

Page 40

#### SAMPLE PREPARATION – Graffiti Control

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

#### Application of Sure Klean<sup>®</sup> Weather Seal Blok-Guard<sup>®</sup> & Graffiti Control:

Sections of the samples were treated with one coat of Sure Klean<sup>®</sup> Weather Seal Blok-Guard<sup>®</sup> & Graffiti Control in accordance with PROSOCO, Inc.'s Product Guide application instructions, and then allowed to cure for at least one day. At the end of the one-day cure period, a visual adverse effects evaluation was made and then the graffiti agents were applied to the clay brick.

Spray paint and markers were applied as graffiti agents to all treated surfaces no sooner than one day following application. Removal of the graffiti agents was attempted 24 hours after application of the graffiti agents, using Defacer Eraser<sup>®</sup> Graffiti Wipe and Sure Klean<sup>®</sup> 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:
- 3. Pressure rinse thoroughly until water runs clear. \*
- 4. Allow the surface to dry thoroughly and visually examine to determine effectiveness.
- \* Pressure rinsing was conducted at approximately 1300 psi with a warm water flow rate of 1.9 gallons per minute.



Page 41

"Brown Vanderbilt" Clay Brick					
Untreated Control	Red	Black	Green	Red	% Avg.
Untreated Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	90%	95%	95%	99%	95%
Graffiti Wipe	90%	90%	90%	100%	93%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	95%	100%	100%	100%	99%
Graffiti Wipe	95%	100%	100%	100%	<b>99%</b>
"C	hadwic	k QS" CI	ay Brick		
Untreated Control	Red	Black	Green	Red	% Avg.
	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	90%	99%	99%	99%	97%
Graffiti Wipe	90%	95%	100%	100%	96%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	95%	100%	100%	100%	99%
Graffiti Wipe	95%	100%	100%	100%	99%
"(	Cumberl	and" Cla	ay Brick		
Untreated Control	Red	Black	Green	Red	% Avg.
	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	90%	100%	98%
Graffiti Wipe	100%	90%	90%	100%	95%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	100%	100%	100%
Graffiti Wipe	100%	100%	100%	100%	100%
"Da	ark Prine	ceton" C	lay Bric	k	
Untreated Control	Red	Black	Green	Red	% Avg.
	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	95%	100%	100%	100%	99%
Graffiti Wipe	95%	100%	100%	100%	99%
Blok-Guard <sup>®</sup> & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	100%	100%	99%
Graffiti Wipe	95%	100%	100%	100%	99%
	5570	10070	10070	10070	3370



### PROSOCO, Inc.

Page 42

"Menawa" Clay Brick					
Untreated Control	Red	Black	Green	Red	% Avg.
Uniteated Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	90%	100%	95%	100%	96%
Graffiti Wipe	90%	95%	95%	100%	95%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	95%	100%	100%	100%	99%
Graffiti Wipe	95%	100%	100%	100%	99%
"Rar	nge Alah	ambra"	Clay Bri	ck	
Untreated Control	Red	Black	Green	Red	% Avg.
Unitedied Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	100%	100%	100%
Graffiti Wipe	100%	90%	90%	100%	95%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	100%	100%	100%
Graffiti Wipe	100%	100%	100%	100%	100%
"F	Range S	and" Cla	ay Brick		
Untreated Control	Red	Black	Green	Red	% Avg.
	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	90%	100%	100%	100%	98%
Graffiti Wipe	90%	100%	100%	100%	98%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	95%	100%	100%	100%	99%
Graffiti Wipe	95%	100%	100%	100%	99%
"R	ange Se	elect" Cl	ay Brick		
Untreated Control	Red	Black	Green	Red	% Avg.
	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	100%	100%	100%
Graffiti Wipe	100%	100%	100%	100%	100%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	100%	100%	100%
Graffiti Wipe	100%	100%	100%	100%	100%



### PROSOCO, Inc.

Page 43

"Red Colonial" Clay Brick					
Untreated Control	Red	Black	Green	Red	% Avg.
Untreated Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	99%	100%	100%
Graffiti Wipe	100%	95%	99%	99%	98%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	100%	100%	100%
Graffiti Wipe	100%	100%	100%	100%	100%
	"Red Sa	nd" Clay	/ Brick		
Untreated Control	Red	Black	Green	Red	% Avg.
Ontreated Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	95%	100%	95%	90%	95%
Graffiti Wipe	95%	95%	95%	95%	95%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	100%	100%	100%
Graffiti Wipe	100%	95%	100%	100%	99%
	Red Sel	ect" Cla	y Brick		
Untreated Control	Red	Black	Green	Red	% Avg.
	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	95%	100%	99%
Graffiti Wipe	100%	100%	95%	100%	99%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	100%	100%	100%
Graffiti Wipe	100%	100%	100%	100%	100%
"F	Red Wire	-cut" Cla	ay Brick		
Untreated Control	Red	Black	Green	Red	% Avg.
	Paint		Marker		Removal
Fast Acting Stripper	100%	100%	95%	100%	99%
Graffiti Wipe	100%	90%	90%	100%	95%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	100%	100%	100%
Graffiti Wipe	100%	100%	100%	100%	100%





### PROSOCO, Inc.

Page 44

"Shakespeare" Clay Brick					
Untreated Control	Red	Black	Green	Red	% Avg.
Uniteated Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	99%	99%	100%
Graffiti Wipe	100%	90%	95%	99%	96%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	100%	100%	100%
Graffiti Wipe	100%	100%	100%	100%	100%
•	'Aspen (	QS" Clay	/ Brick		
Untreated Control	Red	Black	Green	Red	% Avg.
	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	85%	90%	90%	95%	90%
Graffiti Wipe	85%	90%	90%	95%	90%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	95%	100%	95%	100%	98%
Graffiti Wipe	90%	95%	90%	100%	94%
	"Bordea	ux" Clay	Brick	-	-
Untreated Control	Red	Black	Green	Red	% Avg.
	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	90%	100%	98%
Graffiti Wipe	100%	100%	90%	100%	98%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	99%	100%	100%
Graffiti Wipe	100%	100%	95%	100%	99%
"Br	andywir	ne QS" C	lay Bric	k	1
Untreated Control	Red	Black	Green	Red	% Avg.
	Paint		Marker		
Fast Acting Stripper	100%	100%	95%	100%	99%
Graffiti Wipe	100%	100%	90%	100%	98%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	100%	100%	100%
Graffiti Wipe	100%	100%	100%	100%	100%





### PROSOCO, Inc.

Page 45

"Brookstone QS" Clay Brick					
Untreated Control	Red	Black	Green	Red	% Avg.
Uniteated Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	70%	90%	90%
Graffiti Wipe	90%	70%	70%	95%	81%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	100%	100%	100%
Graffiti Wipe	100%	95%	100%	100%	99%
	"Cloist	er" Clay	Brick		
Untreated Control	Red	Black	Green	Red	% Avg.
	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	95%	100%	100%	100%	99%
Graffiti Wipe	90%	100%	100%	100%	98%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	95%	100%	100%	100%	99%
Graffiti Wipe	95%	100%	100%	100%	99%
۲"	lamptor	QS" Cla	ay Brick		
Untreated Control	Red	Black	Green	Red	% Avg.
	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	95%	100%	95%	95%	96%
Graffiti Wipe	90%	90%	95%	95%	93%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	100%	100%	100%
Graffiti Wipe	95%	99%	100%	100%	99%
	'Inverne	ss" Clay	/ Brick		
Untreated Control	Red	Black	Green	Red	% Avg.
	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	90%	100%	100%	100%	98%
Graffiti Wipe	90%	100%	100%	100%	98%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	95%	100%	100%	100%	99%
Graffiti Wipe	95%	100%	100%	100%	99%



### PROSOCO, Inc.

Page 46

"Mahogany" Clay Brick				
Red	Black	Green	Red	% Avg.
Paint	Marker	Marker	Marker	Removal
100%	100%	100%	100%	100%
100%	100%	100%	100%	100%
Red	Black	Green	Red	% Avg.
Paint	Marker	Marker	Marker	Removal
100%	100%	100%	100%	100%
100%	100%	100%	100%	100%
<i>l</i> lajor Mo	osby" Cla	ay Brick		
Red	Black	Green	Red	% Avg.
Paint	Marker	Marker	Marker	Removal
85%	100%	95%	95%	94%
85%	95%	95%	95%	93%
Red	Black	Green	Red	% Avg.
Paint	Marker	Marker	Marker	Removal
90%	100%	100%	100%	98%
90%	100%	100%	100%	98%
onte Vis	ta QS" C	lay Bric	k	
Red	Black	Green	Red	% Avg.
Paint	Marker	Marker	Marker	Removal
70%	100%	100%	100%	93%
70%	100%	100%	100%	93%
Red	Black	Green	Red	% Avg.
Paint	Marker	Marker	Marker	Removal
90%	100%	100%	100%	98%
90%	100%	100%	100%	98%
ntain Br	ook QS'	' Clay Br	<sup>.</sup> ick	
Red	Black	Green	Red	% Avg.
Paint	Marker	Marker	Marker	Removal
85%	95%	90%	100%	93%
90%	90%	90%	100%	93%
Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
95%	95%	100%	100%	98%
•				1
	Red       Paint       100%       100%       Red       Paint       100%       Red       Paint       100%       Major Mo       Major Mo       Red       Paint       85%       Red       Paint       90%       onte Vist       Red       Paint       70%       Red       Paint       90%       90%       ntaint       90%       90%       Red       Paint       90%       Red       Paint       90%       90%       Red       Paint       85%       90%       Red       Paint       85%       90%       Red       Paint       85%       90%       Red       Paint <	Red     Black       Paint     Marker       100%     100%       100%     100%       100%     100%       Red     Black       Paint     Marker       100%     100%       100%     100%       100%     100%       100%     100%       Marker     Black       Paint     Marker       85%     95%       Red     Black       Paint     Marker       85%     95%       Red     Black       Paint     Marker       90%     100%       90%     100%       70%     100%       70%     100%       70%     100%       70%     100%       70%     100%       90%     100%       90%     100%       90%     100%       90%     100%       90%     100%       90%     90%       90% <td>Red     Black     Green       Paint     Marker     Marker       100%     100%     100%       100%     100%     100%       100%     100%     100%       Red     Black     Green       Paint     Marker     Marker       100%     100%     100%       100%     100%     100%       100%     100%     100%       100%     100%     100%       100%     100%     100%       Marker     Marker     Marker       Red     Black     Green       Paint     Marker     Marker       85%     95%     95%       85%     95%     95%       Red     Black     Green       Paint     Marker     Marker       90%     100%     100%       00%     100%     100%       70%     100%     100%       70%     100%     100%       70%     100%     100%&lt;</td> <td>Red PaintBlack MarkerGreen MarkerRed Marker100%100%100%100%100%100%100%100%100%100%100%100%Red PaintBlack MarkerGreen MarkerRed Marker100%100%100%100%100%100%100%100%100%100%100%100%100%100%100%100%Marker MarkerMarkerMarkerRed BlackGreen MarkerRed85%100%95%95%85%95%95%95%Red BlackGreen MarkerRedPaint MarkerMarker MarkerMarker90%100%100%100%90%100%100%100%70%100%100%100%70%100%100%100%70%100%100%100%70%100%100%100%90%100%100%100%90%100%100%100%90%100%100%100%90%100%100%100%90%100%100%100%90%100%100%100%90%100%100%100%90%90%90%100%90%90%90%100%90%90%90%100%90%90%90%100%</td>	Red     Black     Green       Paint     Marker     Marker       100%     100%     100%       100%     100%     100%       100%     100%     100%       Red     Black     Green       Paint     Marker     Marker       100%     100%     100%       100%     100%     100%       100%     100%     100%       100%     100%     100%       100%     100%     100%       Marker     Marker     Marker       Red     Black     Green       Paint     Marker     Marker       85%     95%     95%       85%     95%     95%       Red     Black     Green       Paint     Marker     Marker       90%     100%     100%       00%     100%     100%       70%     100%     100%       70%     100%     100%       70%     100%     100%<	Red PaintBlack MarkerGreen MarkerRed Marker100%100%100%100%100%100%100%100%100%100%100%100%Red PaintBlack MarkerGreen MarkerRed Marker100%100%100%100%100%100%100%100%100%100%100%100%100%100%100%100%Marker MarkerMarkerMarkerRed BlackGreen MarkerRed85%100%95%95%85%95%95%95%Red BlackGreen MarkerRedPaint MarkerMarker MarkerMarker90%100%100%100%90%100%100%100%70%100%100%100%70%100%100%100%70%100%100%100%70%100%100%100%90%100%100%100%90%100%100%100%90%100%100%100%90%100%100%100%90%100%100%100%90%100%100%100%90%100%100%100%90%90%90%100%90%90%90%100%90%90%90%100%90%90%90%100%



### PROSOCO, Inc.

Page 47

"Myrtlewood" Clay Brick					
Untreated Control	Red	Black	Green	Red	% Avg.
	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	80%	100%	95%	100%	94%
Graffiti Wipe	70%	100%	90%	100%	90%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	90%	100%	95%	100%	96%
Graffiti Wipe	90%	100%	95%	100%	96%
-	'Old Soເ	uth" Clay	/ Brick		
Untreated Control	Red	Black	Green	Red	% Avg.
	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	90%	95%	90%	100%	94%
Graffiti Wipe	90%	95%	90%	100%	94%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	90%	99%	95%	100%	96%
Graffiti Wipe	90%	99%	95%	100%	<b>96%</b>
"F	Red Cloi	ster" Cla	ay Brick		
Untreated Control	Red	Black	Green	Red	% Avg.
	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	95%	100%	95%	100%	98%
Graffiti Wipe	95%	90%	95%	100%	95%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	95%	100%	100%	100%	99%
Graffiti Wipe	95%	95%	99%	100%	97%
"Re	ed Richr	nond" C	lay Bric	k	
Untreated Control	Red	Black	Green	Red	% Avg.
Untreated Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	99%	95%	100%	99%
Graffiti Wipe	100%	90%	90%	100%	95%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	99%	100%	100%	100%
Graffiti Wipe	100%	95%	100%	100%	99%



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Page 48

"Salisbury QS" Clay Brick					
Untreated Control	Red	Black	Green	Red	% Avg.
Untreated Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	90%	100%	98%
Graffiti Wipe	100%	100%	90%	100%	98%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	100%	100%	100%
Graffiti Wipe	100%	100%	100%	100%	100%
	"San Jo	se" Clay	Brick		
Untreated Control	Red	Black	Green	Red	% Avg.
	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	90%	99%	95%	95%	95%
Graffiti Wipe	90%	90%	95%	95%	93%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker		Marker	Removal
Fast Acting Stripper	90%	100%	99%	100%	97%
Graffiti Wipe	90%	100%	99%	100%	97%
	'Shamro	ock" Clay	Brick		
Untreated Control	Red	Black	Green	Red	% Avg.
	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	95%	100%	85%	100%	95%
Graffiti Wipe	95%	90%	85%	95%	91%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker		Marker	Removal
Fast Acting Stripper	95%	100%	99%	100%	99%
Graffiti Wipe	95%	100%	99%	100%	99%
	St. Char	les" Cla	y Brick	r	1
Untreated Control	Red	Black	Green	Red	% Avg.
	Paint		Marker	Marker	
Fast Acting Stripper	99%	99%	90%	95%	96%
Graffiti Wipe	99%	90%	90%	95%	94%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	100%	100%	100%
Graffiti Wipe	100%	100%	100%	100%	100%





### PROSOCO, Inc.

Page 49

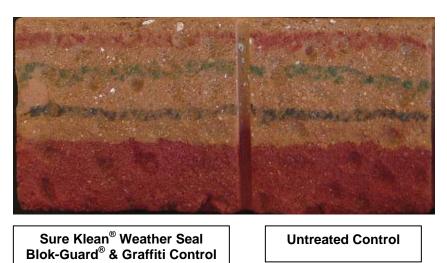
"Woodbury QS" Clay Brick					
Untreated Control	Red	Black	Green	Red	% Avg.
ontreated control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	95%	95%	90%	100%	95%
Graffiti Wipe	95%	90%	90%	100%	94%
Blok-Guard <sup>®</sup> &	Red	Black	Green	Red	% Avg.
Graffiti Control	Paint	Marker	Marker	Marker	Removal
Fast Acting Stripper	100%	100%	100%	100%	100%
Graffiti Wipe	100%	100%	100%	100%	100%





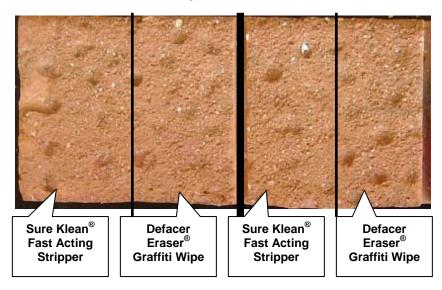
Page 50

#### PHOTOGRAPHS – Graffiti Control



"Red Colonial" Clay Brick Before Graffiti Removal

"Red Colonial" Clay Brick After Graffiti Removal







Page 51

#### CONCLUSIONS – Graffiti Control

Based upon laboratory evaluations, graffiti removal was improved when the submitted samples were treated with Sure Klean<sup>®</sup> Weather Seal Blok-Guard<sup>®</sup> & Graffiti Control prior to graffiti application. In addition, Sure Klean<sup>®</sup> Weather Seal Blok-Guard<sup>®</sup> & Graffiti Control enhanced the appearance of the clay brick.

#### **RECOMMENDATIONS – GRAFFITI CONTROL**

Recommendations for graffiti control treatment for each type of clay brick submitted by Jenkins Brick Company, Coosada, AL, 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 of clay brick submitted.

Brick Type	Graffiti Repellent	Graffiti Removers
All Submitted Clay Brick	Sure Klean <sup>®</sup> Weather Seal Blok- Guard <sup>®</sup> & Graffiti Control	Sure Klean <sup>®</sup> Fast Acting Stripper OR Defacer Eraser <sup>®</sup> Graffiti Wipe

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.

For the most severe graffiti cases Sure Klean<sup>®</sup> Fast Acting Stripper is recommended for job-site testing. For mild graffiti cases, Defacer Eraser<sup>®</sup> Graffiti Wipe is recommended for job-site testing. See product literature for additional application and product information.

Christopher A. Moore Project Testing Laboratory Technician CAM



## Laboratory Report

# **Pallet Tag Program Evaluation**

# Jenkins Brick Company Coosada, AL

Project No. 0408-06 PTP

Prepared For:

Jenkins Brick Company 6250 Coosada Rd. Coosada, AL 36020

**Prepared By:** 



PROSOCO, Inc. November 2004