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CAMPLES SUBMITTED

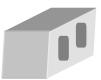
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#### **ATTACHMENTS**

Technical Services TECH Note RILEM Tube Test Procedures

Product Data literature for all products evaluated





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FOR: Steve Dean

Mike Trotta John Bourne

**SUBJECT:** Akron Brick and Block

Akron, OH

DATE: September 17, 2004

**PROJECT:** PTP 0409-05

SAMPLES SUBMITTED: Three types of "Quick-Brick" concrete masonry units (CMU) with Dry-Blok

integral water repellent.

Sample	Name/Color	Size	
	"Tan"	8" x 4" x 16"	
"Quick-Brick" CMU	"Red/Black"	8" x 4" x 16"	
	"Red"	8" x 4" x 16"	

Submitted by: Steve Dean





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#### **PURPOSE OF TESTING:**

Three types of "Quick-Brick" concrete masonry units, with large, small and fine aggregate were submitted for testing using PROSOCO's new construction cleaning, water repellent products, and graffiti control products.

**A. Cleaning Concrete Masonry Units:** Sure Klean<sup>®</sup> Concrete Brick Cleaner\* was evaluated for removal of laboratory applied mortar.

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

Heavy deposits of mortar are removed with dry scraping after 24 hours. Prepared cleaning solutions are then evaluated for their effectiveness in removing residual Ash Grove<sup>®</sup> Type S mortar staining after 3, 7, and 14 days of curing\*.

**B.** Color Uniformity Testing - Sure Klean® Concrete Brick Cleaner and Sure Klean® Custom Masonry Cleaner were evaluated at various dilutions to determine the optimal concentration of cleaner that leaves the external surface looking most like the natural through-body color of the CMU. Color uniformity was evaluated by comparing aggregate exposure and surface pigment alternation/removal of each cleaned surface compared to the natural through-body color of the CMU.

<u>Aggregate Exposure</u> is the visual examination comparing aggregate exposure of the interior, throughbody section of CMU to surfaces cleaned with selected product(s) at given dilutions.

<u>Surface Pigment Alteration/Removal</u> is the visual examination comparing the pigmentation of the interior, through-body section of the CMU to surfaces cleaned with selected product(s) at given dilutions.

The following is the scale used for reporting results of both categories:

- 0- **Worst** match to through-body
- 3 **Good** match to through-body
- 1 **Poor** match to through-body
- 4 Best match to through-body
- 2 **Fair** match to through-body

### NOTE: When cleaning integrally colored CMU.

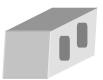
Integrally colored CMU frequently have high amounts of pigments concentrated on the surface of the cured concrete unit. Variation of surface pigment concentrations from one CMU to the next creates a blotchy appearance in the completed wall. Allowed to remain on the surface of the CMU, the weakly bound 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 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.

- **C. Protective Water Repellents** Sure Klean<sup>®</sup> Custom Masonry Sealer and Sure Klean<sup>®</sup> Weather Seal Siloxane WB Concentrate were evaluated for their ability to provide water repellency to the submitted samples.
- **D. Graffiti Control** Sure Klean<sup>®</sup> Weather Seal Blok-Guard<sup>®</sup> & Graffiti Control was evaluated for its ability to control graffiti on the submitted samples. Sure Klean<sup>®</sup> Fast Acting Stripper and Defacer Eraser<sup>®</sup> Graffiti Wipe were evaluated for their ability to remove graffiti from the submitted samples.

\*In the original report, this product was called Sure Klean® Burnished Custom Masonry Cleaner. This report was revised when the product name was changed.





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#### PRODUCTS EVALUATED FOR CLEANING AND COLOR UNIFORMITY

Sample Type	Product	Dilution
	Sure Klean <sup>®</sup> Concrete Brick Cleaner	1:2, 1:3
All Submitted CMU's	Sure Klean <sup>®</sup> Custom Masonry Cleaner (for adverse effects only)	1:8

#### WATER REPELLENT PRODUCTS EVALUATED

Sample Type	Product	Dilution	
All Submitted CMU's	Sure Klean <sup>®</sup> Custom Masonry Sealer	Concentrate	
	Sure Klean® Weather Seal Siloxane WB Concentrate	1:9	

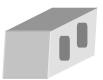
#### **GRAFFITI CONTROL PRODUCTS EVALUATED**

Sample Type	Product	Dilution
All Submitted CMU's	Sure Klean <sup>®</sup> Weather Seal Blok-Guard® & Graffiti Control	Concentrate

#### **GRAFFITI REMOVAL PRODUCTS EVALUATED**

Sample Type	Product
All Submitted CMI I's	Sure Klean <sup>®</sup> Fast Acting Stripper
All Submitted CMU's	Defacer Eraser <sup>®</sup> Graffiti Wipe





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#### SECTION A - CLEANING INTEGRALLY COLORED CMU

#### **DESCRIPTION OF PRODUCTS EVALUATED**

These cleaning trials were conducted to determine the optimal cleaning/cure time combination.

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

#### **TEST METHOD - Cleaning**

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

- 1. Prewet the surface with water.
- 2. Apply each cleaner at the appropriate dilutions.
- 4. Reapply the products and moderately agitate with a brush.
- 5. Pressure rinse thoroughly.\*
- 6. Allow the surface to dry for at least 18 hours and visually examine.

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





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#### **TEST RESULTS – Cleaning**

#### % Removal of Type S Mortar

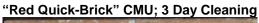
"Tan Quick-Brick" CMU							
Product	Dilution	3 day	7 day	14 day			
Concrete Brick Cleaner	1:2	95%	95%	95%			
Concrete Brick Cleaner	1:3	90%	95%	90%			
"Red/Black Quick-Brick" CMU							
Product	Dilution	3 day	7 day	14 day			
Concrete Brick Cleaner	1:2	95%	90%	95%			
Concrete Brick Cleaner	1:3	95%	90%	90%			
"Re	"Red Quick-Brick" CMU						
Product	Dilution	3 day	7 day	14 day			
Concrete Brick Cleaner	1:2	95%	95%	99%			
Concrete Brick Cleaner	1:3	90%	95%	99%			





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#### **PHOTOGRAPHS- Cleaning**





Sure Klean® Concrete Brick Cleaner 1:2

Sure Klean® Concrete Brick Cleaner 1:3

"Red Quick-Brick" CMU; 7 Day Cleaning



Sure Klean® Concrete Brick Cleaner 1:2

Sure Klean® Concrete Brick Cleaner 1:3

**Untreated Control** 

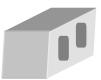
"Red Quick-Brick" CMU; 14 Day Cleaning



Concrete Brick Cleaner 1:2

Sure Klean® Concrete Brick Cleaner 1:3





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#### **CONCLUSIONS – Cleaning**

Based on the test data, the submitted samples were efficiently cleaned with Sure Klean® Concrete Brick Cleaner diluted with two and three parts water. Use higher concentrations and surface agitation to maximize aggregate exposure. Use lower concentrations and surface agitation to minimize aggregate exposure.

All dilutions of Sure Klean<sup>®</sup> Concrete Brick Cleaner tested affected the substrate in a similar manner, removing slight amounts of pigmented matrix from the CMU, and enhancing the natural appearance of the integrally colored concrete masonry unit.

#### RECOMMENDED PRODUCTS AND DILUTIONS - CLEANING

Recommendations for cleaning for the CMU submitted by Akron Brick and Block, Akron, OH, are provided in the chart below. Recommendations are based on the optimum dilution for complete removal of mortar.

Sample	New Construction Cleaning (Type S mortar, 14 day)		
All Submitted CMU's	Sure Klean <sup>®</sup> Concrete Brick Cleaner (1:2) OR (1:3)		

The most appropriate cleaner and dilution should be determined on the specific job-site, and will be dependent primarily on the nature and severity of soiling present at that location. Pressure rinsing equipment providing at least 400 psi at 4-6 gpm delivered though a 15-40 degree fan spray often produces best cleaning 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 cleaning product and procedures for a particular project. See product literature for additional application and product information.





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#### **SECTION B – COLOR UNIFORMITY:**

#### **DESCRIPTION OF PRODUCTS EVALUATED – Color Uniformity:**

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

**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 2-8 parts water. Apply by brush or low-pressure spray.

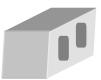
#### **TEST METHOD – Color Uniformity Testing:**

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

- 1. Prewet the surface with water.
- 2. Apply each cleaner at the appropriate dilutions.
- 4. Reapply the products 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.

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





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#### **TEST RESULTS – Color Uniformity**

Substrate: "Quick-Brick" CMU	Pigment Color: "Tan"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Concrete Brick Cleaner	1:2	4	4
Concrete Brick Cleaner	1:3	4	4
Custom Masonry Cleaner	1:8	4	4
Substrate: "Quick-Brick" CMU	Pigment Co	olor: "Red/Black"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Concrete Brick Cleaner	1:2	4	4
Concrete Brick Cleaner	1:3	4	4
Custom Masonry Cleaner	1:8	4	4
	•		
Substrate: "Quick-Brick" CMU	Pigment Co	olor: "Red"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Concrete Brick Cleaner	1:2	4	4
Concrete Brick Cleaner	1:3	4	4
Custom Masonry Cleaner	1:8	4	4

Scale used for reporting results of both categories

- 0 Worst match to through-body
- 1 **Poor** match to through-body
- 2 Fair match to through-body

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

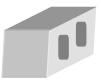
#### **PHOTOGRAPHS – Color Uniformity**

#### "Red Quick-Brick" CMU; Through-body



Sure Klean<sup>®</sup> Concrete Brick Cleaner (1:2) Sure Klean<sup>®</sup> Concrete Brick Cleaner (1:3) Sure Klean<sup>®</sup> Custom Masonry Cleaner (1:8) Throughbody





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#### CONCLUSIONS: COLOR UNIFORMITY:

All dilutions of Sure Klean<sup>®</sup> Concrete Brick Cleaner and Sure Klean<sup>®</sup> Custom Masonry Cleaner tested affected the substrate in a similar manner, removing slight amounts of pigmented matrix. All dilutions enhanced the natural appearance of the integrally colored CMU.

#### **RECOMMENDATIONS – COLOR UNIFORMITY**

Recommendations for color uniformity for each type of CMU submitted by Akron Brick and Block, Akron, OH, are provided in the chart below. Recommendations are based on the optimum dilution that provides the best color uniformity.

Sample	Color Uniformity		
All Submitted CMU's	Sure Klean <sup>®</sup> Concrete Brick Cleaner (1:2) OR (1:3) OR Sure Klean <sup>®</sup> Custom Masonry Cleaner (1:8)		

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. Pressure rinsing equipment providing at least 400 psi at 4-6 gpm delivered though a 15-40 degree fan spray often produces best cleaning 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 cleaning product and procedures for a particular project. See product literature for additional application and product information.





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#### **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** Custom Masonry Sealer – A clear, solvent-based silicone elastomer formulated to weatherproof custom masonry units, CMU, 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**<sup>®</sup> **Weather Seal Siloxane WB Concentrate** – A concentrated water repellent designed for dilution with fresh water at the jobsite. This solvent-free blend of siloxanes and oligomeric alkoxysiloxanes mixes easily with water to produce a penetrating water repellent ideal for application to dense or porous masonry surfaces. An effective alternative to conventional solvent-based silanes or siloxanes, Siloxane WB penetrates and chemically bonds deep within the masonry substrate to provide long-lasting protection against water-related staining or deterioration. Will not darken, produce a surface film or impair the natural breathing characteristics of treated surfaces.

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

The submitted CMU were scored, allowed to dry, and to reabsorb atmospheric humidity for 24 hours prior to treatment. The treatment method consisted of a wet-on-wet brush application. All treatments were allowed to cure at least 3 days 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.





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

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

	RESULTS
"Tan Quick-Brick" CMU	
Untreated Control	58 mph
Custom Masonry Sealer	60 mph
Siloxane WB 1:9	60 mph
"Red/Black Quick-Brick" CMU	
Untreated Control	58 mph
Custom Masonry Sealer	60 mph
Siloxane WB 1:9	60 mph
"Red Quick-Brick" CMU	
Untreated Control	58 mph
Custom Masonry Sealer	60 mph
Siloxane WB 1:9	60 mph

#### **PHOTOGRAPHS- Protective Water Repellents**

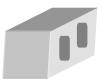
#### "Red Quick-Brick" CMU - RILEM Testing



Sure Klean<sup>®</sup> Custom Masonry Sealer Untreated Control

Sure Klean<sup>®</sup> Weather Seal Siloxane WB (1:9)





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#### **CONCLUSIONS - Protective Water Repellents**

Based upon laboratory evaluations, Sure Klean<sup>®</sup> Custom Masonry Sealer and Sure Klean<sup>®</sup> Weather Seal Siloxane WB Concentrate diluted with nine parts water provided excellent water repellency to the submitted sample. In addition, Sure Klean<sup>®</sup> Custom Masonry Sealer enhanced the color of the CMU's.

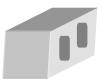
#### **RECOMMENDATIONS - PROTECTIVE WATER REPELLENTS**

Recommendations for water repellency treatment for the CMU submitted by Akron Brick and Block, Akron, OH, 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 Type	Water Repellents		
All Submitted CMU's	Sure Klean <sup>®</sup> Custom Masonry Sealer OR Sure Klean <sup>®</sup> Weather Seal Siloxane WB Concentrate (1:9)		

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





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#### **SECTION D - GRAFFITI CONTROL**

#### **DESCRIPTION OF PRODUCTS EVALUATED**

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

#### **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 material. Sure Klean® Weather Seal Blok-Guard® & Graffiti Control protects masonry surfaces from repeated graffiti attacks without altering the natural appearance.

#### **Products Evaluated for Graffiti Removal**

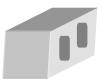
**Defacer Eraser® Graffiti Wipe** – An easy-to-use graffiti remover that does not contain methanol, methylene chloride or other "halogenated" solvents prohibited on many projects. Graffiti Wipe removes a variety of graffiti stains from most smooth masonry, wood and metal surfaces.

**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)





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#### SAMPLE PREPARATION – Graffiti Control

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

**Sure Klean® Weather Seal Blok-Guard® & Graffiti Control** - Sections of the CMU samples were treated with one coat of Sure Klean® Weather Seal Blok-Guard® & 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 substrates.

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

#### **TEST METHOD - Graffiti Control**

Chemical cleaners were evaluated using the following procedure:

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





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#### **TEST RESULTS - Graffiti Control**

	"Tan Qui	ck-Brick" CM	IU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	95%	90%	90%	91%
Graffiti Wipe	85%	95%	85%	85%	88%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	100%	100%	99%	99%	100%
Graffiti Wipe	100%	100%	99%	99%	100%
"Red/Black Quick-Brick" CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	95%	95%	95%	95%
Graffiti Wipe	95%	95%	90%	95%	94%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	100	100	100	100	100
Graffiti Wipe	100	100	100	100	100
"Red Quick-Brick" CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	70%	90%	89%
Graffiti Wipe	95%	95%	70%	70%	83%
Blok-Guard® & Graffiti Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	100%	100%	95%	95%	98%
Graffiti Wipe	100%	95%	95%	95%	96%

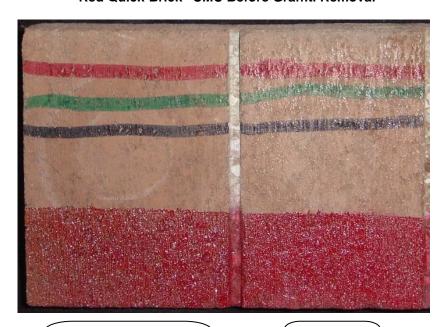




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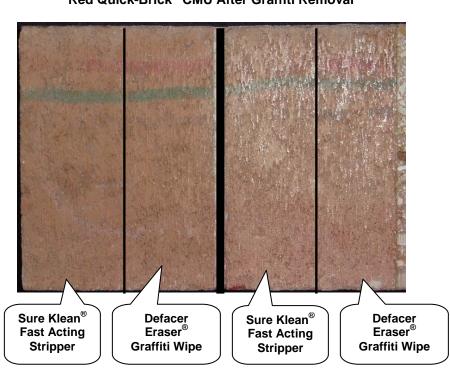
#### **PHOTOGRAPHS – Graffiti Control**

#### "Red Quick-Brick" CMU Before Graffiti Removal



Sure Klean<sup>®</sup> Weather Seal Blok-Guard<sup>®</sup> & Graffiti Control Untreated Control

#### "Red Quick-Brick" CMU After Graffiti Removal







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#### **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 CMU's.

#### **RECOMMENDATIONS - GRAFFITI CONTROL**

Recommendations for graffiti control treatment for each type of CMU submitted by Akron Brick and Block, Akron, OH, 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 Type	Graffiti Repellents	Graffiti Removers		
All Submitted CMU's	Sure Klean® Weather Seal Blok- Guard® & 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 Technical Analyst

CAM



### Laboratory Report

### **Pallet Tag Program Evaluation**

# Akron Brick and Block Akron, OH

Project No. 0409-05 PTP

Prepared For:

Akron Brick and Block 3225 Mogadore Road Akron, OH 44312

Prepared By:



PROSOCO, Inc. August 2004