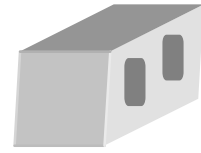




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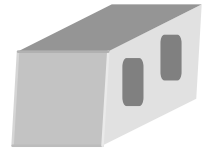
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## **ATTACHMENTS**

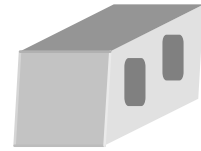
Attachment # 1-PHOTO A & B

Technical Services TECH Note RILEM Test Method No. II.4

Product Data literature for all products evaluated



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**FOR:** Joe Talecki  
**cc:** John Bourne

**SUBJECT:** Imperia Brothers  
57 Canal Road  
Pelham Manor, NY 10803

**DATE:** August 8, 2001

**PROJECT:** 0105-10 BP

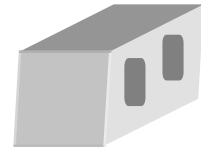
**SAMPLES SUBMITTED:** 4 rough-face concrete CMUs.

<u>Sample</u>	<u>Color</u>	<u>Size</u>
2 concrete CMU	"Gray"	8" x 8" x 16"
2 concrete CMU	"Buff"	8" x 8" x 16"

**Submitted by:** Joe Talecki



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## PURPOSE OF TESTING:

Two rough-face gray and two rough-face buff colored CMUs were submitted for testing using PROSOCO's new construction cleaning, water repellent and graffiti removal products.

**A. Cleaning Concrete Masonry Units:** Sure Klean<sup>®</sup> Custom Masonry Cleaner was evaluated at various dilutions for removal of laboratory applied mortar from the split-face CMUs.

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

Soiled CMUs are allowed to dry before test cleaning.

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 days, 7 days and 14 days of curing.

Refer to “\*Note: When cleaning integrally colored CMU” in the following section, “Surface Alteration Testing.”

**B. Surface Alteration Testing -** Sure Klean<sup>®</sup> Custom Masonry Cleaner was 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.

Aggregate Exposure is the visual examination of the CMU comparing aggregate exposure of the untreated control surface to surfaces cleaned with selected product(s) at given dilutions.

Surface Pigment Alteration/Removal\* is the visual examination of the CMU comparing the surface pigmentation of the untreated control to surfaces cleaned with selected product(s) at given dilutions.

Matrix Erosion is the visual examination comparing the untreated control surface to surfaces cleaned with selected products at given dilutions looking for any potential erosion/digestion of the cementitious matrix of the CMU.

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

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

0 – no change	3 – heavy
1 – slight	4 – excessive
2 – moderate	

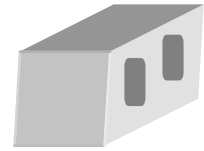
**\* NOTE: When cleaning integrally colored CMU.**

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

In addition to removing excess mortar and construction related soiling, the goal of any cleaning operation undertaken on 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.



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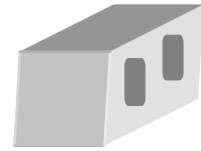
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**C. Protective Water Repellents** - Sure Klean<sup>®</sup> Custom Masonry Sealer, and Sure Klean<sup>®</sup> Weather Seal Siloxane PD were evaluated for their ability to provide water repellency to the submitted samples.

**D. Graffiti Control** – Defacer Eraser<sup>®</sup> Sacrificial Coating SC-1 and Defacer Eraser<sup>®</sup> Sacrificial Coating SC-1 applied over Sure Klean<sup>®</sup> Weather Seal Siloxane PD were evaluated for their ability to repel graffiti agents and assisting in the ease of removal of graffiti agents. Defacer Eraser<sup>®</sup> Graffiti Wipe and Sure Klean<sup>®</sup> Fast Acting Stripper were evaluated for their ability to remove graffiti.



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## CLEANING PRODUCTS EVALUATED

SAMPLE	Sure Klean® Custom Masonry Cleaner
All Colors of the rough-face CMUs	1:2*
	1:4*
	1:6*

## SURFACE ALTERATION PRODUCTS EVALUATED

SAMPLE	Sure Klean® Custom Masonry Cleaner
All Colors of the rough-face CMUs	1:2*
	1:4*
	1:6*

\*Dilution ratios refer to mixtures of concentrated cleaner : fresh water.

## WATER REPELLENT PRODUCTS EVALUATED

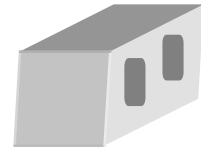
SAMPLE	Product	Dilution
All Colors of the rough-face CMUs	Sure Klean® Custom Masonry Sealer	Concentrate
All Colors of the rough-face CMUs	Sure Klean® Weather Seal Siloxane PD	Concentrate

## GRAFFITI CONTROL PRODUCTS EVALUATED

SAMPLE	Product	Dilution
All Colors of the rough-face CMUs	Defacer Eraser® Sacrificial Coating SC-1	Concentrate
All Colors of the rough-face CMUs	SC-1 over Siloxane PD	Concentrate
All Colors of the rough-face CMUs	Defacer Eraser® Graffiti Wipe	Concentrate
	Sure Klean® Fast Acting Stripper	Concentrate



# BLOCK PROGRAM LABORATORY REPORT



## SECTION A – CLEANING INTEGRALLY COLORED CMUs

### DESCRIPTION OF PRODUCTS EVALUATED

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

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

### TEST METHOD – Cleaning

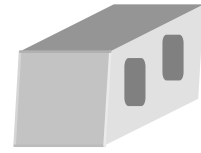
Dilution ratios refer to mixtures of parts concentrated cleaner : parts fresh water. Chemical cleaners were evaluated using the following procedure:

1. Prewet the surface with water.
2. Apply cleaner at the appropriate dilutions.
3. Allow appropriate exposure time.  
Custom Masonry Cleaner .....3 minutes
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.

\* 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

Sample	Cleaner	Dilution	Cure	Effectiveness
All colors of rough-face CMUs	Custom Masonry Cleaner	1:2	3 day	100%
		1:4		100%
		1:6		100%
		1:2	7 day	100%
		1:4		100%
		1:6		100%
		1:2	14 day	100%
		1:4		100 %
		1:6		100%

## CONCLUSIONS - Cleaning:

Based on the test data, the rough-face CMUs were efficiently cleaned with each dilution of Sure Klean<sup>®</sup> Custom Masonry Cleaner. Use higher concentrations and surface agitation to maximize aggregate exposure. Use low concentration and surface agitation to minimize aggregate exposure.

All dilutions of Sure Klean<sup>®</sup> Custom Masonry Cleaner tested affected the substrate in a similar manner, removing heavy concentrations of pigmented matrix from the concrete bricks, exposing small and large aggregate, and enhancing the natural appearance of the integrally colored concrete brick.

## RECOMMENDED PRODUCTS AND DILUTIONS - CLEANING:

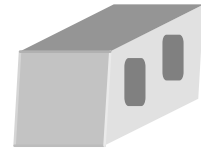
Based on these evaluations, all of the dilutions of Sure Klean<sup>®</sup> Custom Masonry Cleaner tested can be recommended for job-site testing on the split-face CMUs submitted by Imperia Bros., Pelham Manor, NY. They all are effective in removing excess mortar and they assist in improving the color and uniformity of these concrete blocks. 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.

**NOTE:** To remove excess mortar while minimizing aggregate exposure and color enhancement, clean within 7 days of completion using Sure Klean<sup>®</sup> Custom Masonry Cleaner diluted with 6 parts fresh water.





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## SECTION B – Surface Alterations:

### DESCRIPTION OF PRODUCTS EVALUATED – Surface Alterations:

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

### TEST METHOD – Surface Alteration Testing:

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

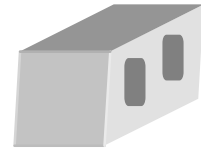
Chemical cleaners were evaluated using the following procedure:

1. Prewet the surface with water.
2. Apply cleaner at the appropriate dilutions.
3. Allow appropriate exposure time.  
Custom Masonry Cleaner .....3 minutes
4. Reapply the products and moderately agitate with a brush.
5. Pressure rinse thoroughly.\*
7. Allow the surface to dry for at least 18 hours and visually examine.

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



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## Surface Alteration Results:

<b>Substrate:</b> Rough-face CMU		<b>Pigment Color:</b> Gray			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:2	1	1	1	0
Custom Masonry Cleaner	1:4	1	1	1	0
Custom Masonry Cleaner	1:6	1	1	1	0
<b>Substrate:</b> Rough-face CMU		<b>Pigment Color:</b> Buff			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:2	1	1	1	0
Custom Masonry Cleaner	1:4	1	1	1	0
Custom Masonry Cleaner	1:6	1	1	1	0

Scale used for reporting results of all categories

0 – no change  
 1 – slight  
 2 – moderate

3 – heavy  
 4 – excessive

NOTE: See Attachment # 1 “PHOTO A” for visual surface alterations.

## **CONCLUSIONS-Surface Alterations:**

Based on the test data, all dilutions of Sure Klean<sup>®</sup> Custom Masonry Cleaner tested affected the CMUs in a similar manner, removing heavy concentrations of pigmented matrix from the concrete blocks, exposing small and large aggregate, and enhancing the natural appearance.

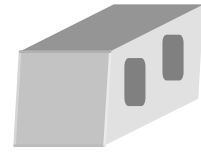
## **RECOMMENDATIONS- Surface Alterations**

Based on these evaluations, all of the dilutions of Sure Klean<sup>®</sup> Custom Masonry Cleaner tested can be recommended for job-site testing on both colors of the CMUs submitted by Imperia Bros., Pelham Manor, NY. They all are effective in removing excess mortar and assist in improving the color and uniformity of these concrete bricks. 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.

**NOTE:** To remove excess mortar while minimizing aggregate exposure and color enhancement, clean within 7 days of completion using Sure Klean<sup>®</sup> Custom Masonry Cleaner diluted with 6 parts fresh water.



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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, cast stone, and concrete block without altering the natural appearance. Custom Masonry Sealer penetrates and fills pores to prevent water penetration through exterior walls exposed to normal weathering as well as long-lasting protection against many types of graffiti.

**Sure Klean® Weather Seal Siloxane PD** – A low odor, alkaline stable, water-based blend of silanes and oligomeric alkoxy siloxanes. Weather Seal Siloxane PD is supplied pre-diluted and is designed for use on concrete and clay masonry surfaces. Weather Seal Siloxane PD penetrates more deeply than conventional water or solvent-based water repellents.

---

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

The submitted blocks 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 2 weeks prior to testing.

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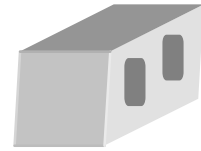
## **TEST METHODS - Protective Water Repellents:**

### **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.



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## TEST RESULTS - Protective Water Repellents:

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

RESULTS	
"Gray" rough-face CMUs	
Untreated Control	< 40 mph
Custom Masonry Sealer	60 mph
Siloxane PD	56 mph

RESULTS	
"Buff" rough-face CMUs	
Untreated Control	< 40 mph
Custom Masonry Sealer	60 mph
Siloxane PD	59 mph

## CONCLUSIONS - Protective Water Repellents:

Based upon laboratory evaluations, Sure Klean<sup>®</sup> Custom Masonry Sealer and Sure Klean<sup>®</sup> Weather Seal Siloxane PD provided above average water repellency on all colors of the CMUs. They also both enhanced the natural color of the submitted samples.

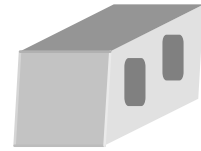
## RECOMMENDATIONS - Protective Water Repellents:

Based on evaluations, Sure Klean<sup>®</sup> Custom Masonry Sealer and Sure Klean<sup>®</sup> Weather Seal Siloxane PD can be recommended for job-site testing on the rough-face CMUs submitted by Imperia Bros., Pelham Manor, NY.

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 removal treatment.

#### **Products Evaluated for Graffiti Protection:**

**Defacer Eraser<sup>®</sup> Sacrificial Coating SC-1** – A clear, water-based sacrificial coating for control of graffiti on most building surfaces. SC-1 acts as a graffiti barrier by preventing spray paints, crayons and ink from penetrating and staining the underlying surface. Graffiti is removed from protected surfaces by high-pressure hot water. The coating must then be reapplied to restore the graffiti barrier.

#### **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 designed for removing coatings and epoxies from masonry, wood and metal surfaces. It also removes oil, grease and waxes from concrete decks, tile and terrazzo floors. Fast Acting Stripper dissolves most spray paints, marking pens, lacquers and other graffiti.

#### **Graffiti Agents:**

Krylon<sup>®</sup> Interior/Exterior Paint (2101 Cherry Red)  
Sanford<sup>®</sup> King Size<sup>™</sup> Permanent Marker (Red)  
Sanford<sup>®</sup> King Size<sup>™</sup> Permanent Marker (Green)  
Sanford<sup>®</sup> King Size<sup>™</sup> Permanent Marker (Black)

### **SAMPLE PREPARATION – Graffiti Control:**

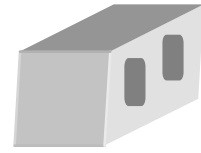
This evaluation compares the effectiveness in the removal of enamel spray paint and permanent markers.

Sections of the rough-face CMUs were treated with Defacer Eraser<sup>®</sup> Sacrificial Coating SC-1 and Defacer Eraser<sup>®</sup> Sacrificial Coating SC-1 applied over Sure Klean<sup>®</sup> Weather Seal Siloxane PD and allowed to cure sufficiently. At the end of the one-week cure period, a visual adverse effect's evaluation was made, and then the graffiti agents were applied to the CMUs.

Spray paint and markers were applied as graffiti agents to the rough face CMUs. 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.



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## TEST METHOD – Cleaning

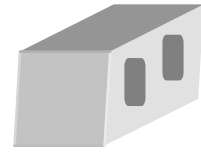
Chemical cleaners were evaluated using the following procedure:

1. Apply the product to a dry surface, soiled with graffiti.
2. Allow appropriate dwell time:  
Graffiti Wipe..... 5 minutes  
Fast Acting Stripper..... 20 minutes
3. Pressure rinse thoroughly until water runs clear.\*
4. Allow the surface to dry thoroughly and visually examine to determine effectiveness.

\* Pressure rinsing 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 Removal

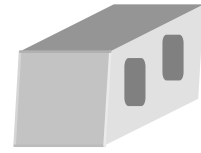
<b>“Gray” rough-face CMUs</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Red Marker</b>	<b>Green Marker</b>	<b>Black Marker</b>	<b>Avg. Removal</b>
Graffiti Wipe	88%	92%	88%	88%	<b>89%</b>
Fast Acting Stripper	90%	92%	84%	98%	<b>91%</b>
<b>SC-1</b>	<b>Red Paint</b>	<b>Red Marker</b>	<b>Green Marker</b>	<b>Black Marker</b>	<b>Avg. Removal</b>
Graffiti Wipe	98%	90%	88%	90%	<b>91%</b>
Fast Acting Stripper	94%	98%	92%	98%	<b>96%</b>
<b>SC-1 over PD</b>	<b>Red Paint</b>	<b>Red Marker</b>	<b>Green Marker</b>	<b>Black Marker</b>	<b>Avg. Removal</b>
Graffiti Wipe	98%	90%	94%	92%	<b>94%</b>
Fast Acting Stripper	94%	98%	84%	98%	<b>94%</b>

<b>“Buff” rough-face CMUs</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Red Marker</b>	<b>Green Marker</b>	<b>Black Marker</b>	<b>Avg. Removal</b>
Graffiti Wipe	88%	88%	90%	88%	<b>89%</b>
Fast Acting Stripper	90%	94%	92%	88%	<b>91%</b>
<b>SC-1</b>	<b>Red Paint</b>	<b>Red Marker</b>	<b>Green Marker</b>	<b>Black Marker</b>	<b>Avg. Removal</b>
Graffiti Wipe	90%	98%	88%	88%	<b>91%</b>
Fast Acting Stripper	92%	94%	88%	96%	<b>93%</b>
<b>SC-1 over PD</b>	<b>Red Paint</b>	<b>Red Marker</b>	<b>Green Marker</b>	<b>Black Marker</b>	<b>Avg. Removal</b>
Graffiti Wipe	98%	90%	90%	92%	<b>93%</b>
Fast Acting Stripper	94%	98%	88%	96%	<b>94%</b>

NOTE: See Attachment # 1 “PHOTO B” for visual graffiti removal.



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## CONCLUSIONS – Graffiti Control:

Based upon laboratory evaluations, Defacer Eraser<sup>®</sup> Graffiti Wipe and Sure Klean<sup>®</sup> Fast Acting Stripper both effectively removed graffiti from all submitted samples. Removal was improved when the surfaces were treated with Defacer Eraser<sup>®</sup> Sacrificial Coating SC-1 or Defacer Eraser<sup>®</sup> Sacrificial Coating SC-1 applied over Sure Klean<sup>®</sup> Weather Seal Siloxane PD. Defacer Eraser<sup>®</sup> Sacrificial Coating SC-1 did not alter the natural appearance of the rough-face CMUs in any way.

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## RECOMMENDATIONS – Graffiti Control:

Based on evaluations, Defacer Eraser<sup>®</sup> Sacrificial Coating SC-1 and Defacer Eraser<sup>®</sup> Sacrificial Coating SC-1 applied over Sure Klean<sup>®</sup> Weather Seal Siloxane PD are recommended for graffiti protection on all rough-face CMUs. Defacer Eraser<sup>®</sup> Graffiti Wipe and Sure Klean<sup>®</sup> Fast Acting Stripper can be recommended for removal of graffiti in conjunction with the recommended graffiti protection treatments on all submitted samples from Imperia Bros., Pelham Manor, NY.

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 graffiti control product and procedures for a particular project. See product literature for additional application and product information.

Donald M. Muathe

Donald M. Muathe  
Technical Analyst

DMM/csm

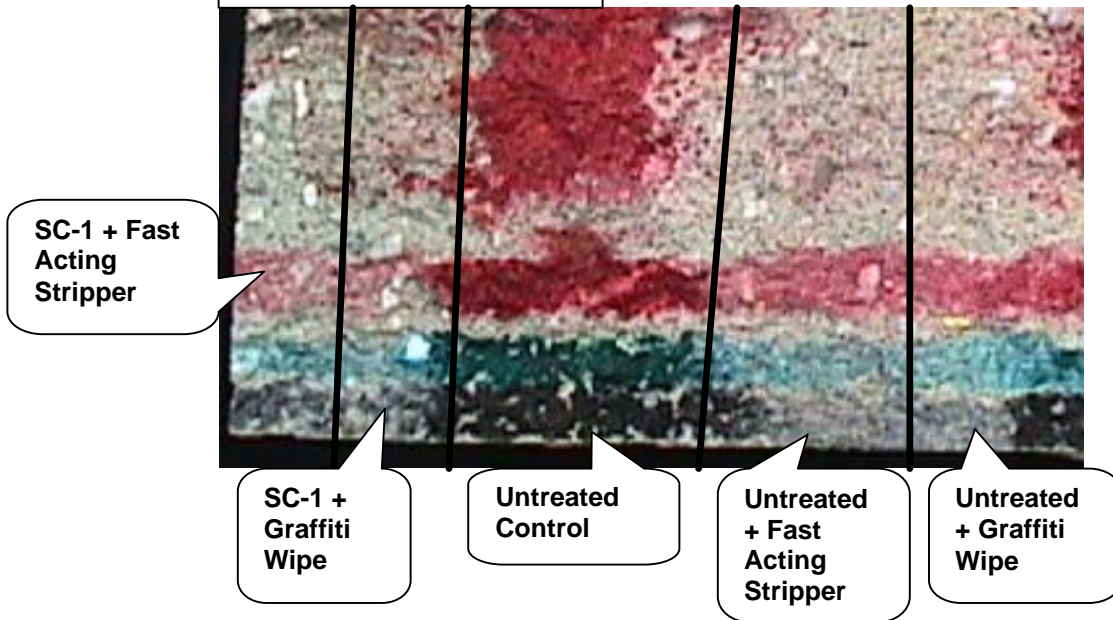


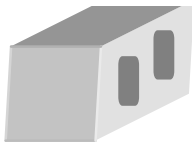
**PHOTOGRAPHS**

**PHOTO A: "Gray" CMU**



**PHOTO B: 'Buff' CMU**





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***Laboratory Report***

**Block Program Evaluation**

**Imperia Brothers  
Pelham Manor, NY**

***Project No. 0105-10 BP***

***Prepared For:***

**Imperia Brothers  
57 Canal Road  
Pelham Manor, NY 10803**

***Prepared By:***



***PROSOCO, Inc.  
August 2001***