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ATTACHMENTS

Technical Services TECH Note RILEM Tube Test Procedures Product Data literature for all products evaluated





- FOR:
 Linda Hoberg, Smithtown Concrete Products

 cc:
 Joe Talecki

 John Bourne
 Stephen Dean
- SUBJECT: Smithtown Concrete Products Smithtown, NY
- DATE: December 18, 2002

PROJECT: 0211-01 PTP

SAMPLES SUBMITTED:

Five split-face concrete block, all with Dry Blok

<u>Block</u>	<u>Color</u>	<u>Size</u>
Split-face CMU	"Pekoe Orange, Heavy Salt"	16" x 8" x 4"
Split-face CMU	"Nathans Brown"	16" x 8" x 4"
Split-face CMU	"Brick Red"	16" x 8" x 4"
Split-face CMU	"Dusty Rose"	16" x 8" x 4"
Split-face CMU	"Lightweight Peach"	16" x 8" x 4"

Submitted by: Linda Hoberg Smithtown Concrete Products PO Box 612 Middle Country Rd & Arthur Dr. Smithtown, NY 11787-0612





PURPOSE OF TESTING:

Five integrally colored split-face concrete blocks 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[®] Custom Masonry Cleaner was evaluated for removal of laboratory applied mortar.

To simulate new construction soiling, all CMU's 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[®] 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[®] Type S mortar staining after 3 days, 7 days, and 14 days of curing. *

*Note: Due to small sample size, mortar was allowed to cure for 7 days only.

B. Color Uniformity Testing* - Sure Klean[®] Custom Masonry Cleaner was 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, through-body 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 concrete masonry units (CMU's) frequently have high amounts of pigments concentrated on the surface of the cured concrete unit. Variation of surface pigment concentrations from one CMU to the next creates a blotchy appearance in the completed wall. Allowed to remain on the surface of the CMU, the weakly bound pigment will weather and streak, further detracting from the appearance of the completed CMU wall.

In addition to removing excess mortar and construction related soiling, the goal of any cleaning operation undertaken on 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[®] Weather Seal Siloxane WB Concentrate was evaluated for its ability to provide water repellency to the submitted samples.

D. Graffiti Control – Defacer Eraser[®] Graffiti Barrier S was evaluated for its ability to control graffiti on the submitted samples. Sure Klean[®] Fast Acting Stripper, Defacer Eraser[®] Graffiti Release, and Defacer Eraser[®] Graffiti Wipe were evaluated for their ability to remove graffiti from the submitted samples.





PRODUCTS EVALUATED FOR CLEANING AND COLOR UNIFORMITY

Sample	Product	Dilution
All submitted CMU's	Sure Klean [®] Custom Masonry Cleaner	1:2, 1:4, 1:6

WATER REPELLENT PRODUCTS EVALUATED

Sample	Product	Dilution
All submitted CMU's	Sure Klean [®] Weather Seal Siloxane WB Concentrate	1:9, 1:14

GRAFFITI CONTROL PRODUCTS EVALUATED

Sample	Product
All submitted CMU's	Defacer Eraser [®] Graffiti Barrier S

GRAFFITI REMOVAL PRODUCTS EVALUATED

Sample	Product
	Sure Klean [®] Fast Acting Stripper
All submitted CMU's	Defacer Eraser [®] Graffiti Release
	Defacer Eraser [®] Graffiti Wipe





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SECTION A - CLEANING INTEGRALLY COLORED CMU's

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 dilution.
- 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.





TEST RESULTS - Cleaning

<u>% removal</u>

"Pekoe Orange, Heavy Salt" split-face block			
Product	Dilution	7 day	
Custom Masonry Cleaner	1:2	100%	
Custom Masonry Cleaner	1:4	100%	
Custom Masonry Cleaner	1:6	100%	
······	"Nathans Brown" split-face blo	ck	
Product	Dilution	7 day	
Custom Masonry Cleaner	1:2	100%	
Custom Masonry Cleaner	1:4	100%	
Custom Masonry Cleaner	1:6	100%	
	"Brick Red" split-face block		
Product	Dilution	7 day	
Custom Masonry Cleaner	1:2	100%	
Custom Masonry Cleaner	1:4	100%	
Custom Masonry Cleaner	1:6	100%	
	"Dusty Rose" split-face bloc	(
Product	Dilution	7 day	
Custom Masonry Cleaner	1:2	100%	
Custom Masonry Cleaner	1:4	100%	
Custom Masonry Cleaner	1:6	100%	
"L	ightweight Peach" split-face b	lock	
Product	Dilution	7 day	
Custom Masonry Cleaner	1:2	100%	
Custom Masonry Cleaner	1:4	100%	
Custom Masonry Cleaner	1:6	100%	





CONCLUSIONS - Cleaning

Based upon the test data, all of the submitted concrete block were efficiently cleaned with each dilution of Sure Klean[®] 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[®] Custom Masonry Cleaner tested affected the substrate in a similar manner, removing slight to heavy concentrations of pigmented matrix from the split-face concrete blocks, exposing small and large aggregate, and enhancing the natural appearance of the integrally colored concrete masonry unit.

RECOMMENDED PRODUCTS AND DILUTIONS - CLEANING

Recommendations for cleaning for each type of CMU submitted by Smithtown Concrete Products in Smithtown, NY are provided in the chart below. Recommendations are based on the optimum dilution for complete removal of mortar.

СМU Туре	New Construction Cleaning (Type S mortar, 7 day)
All submitted CMU's	Sure Klean [®] Custom Masonry Cleaner (1:6)

The most appropriate cleaner and dilution should be determined on the specific job-site, and will be dependent primarily on the nature and severity of soiling present at that location.

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





SECTION B - COLOR UNIFORMITY:

DESCRIPTION OF PRODUCTS EVALUATED – Color Uniformity:

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 – Color Uniformity Testing:

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

- 1. Prewet the surface with water.
- 2. Apply cleaner at the appropriate dilution.
- 4. Reapply the product and moderately agitate with a brush.
- 5. Pressure rinse thoroughly.*
- 6. Allow the sample to dry for at least 18 hours and visually examine.
- 7. Break the sample in half and compare the through-body surfaces to the cleaned surfaces for the best match.

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





TEST RESULTS – Color Uniformity

Substrate: Split-face block	Pigment Col	or: "Pekoe Orange, Heavy Sa	llt"
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	3	3
Custom Masonry Cleaner	1:4	3	3
Custom Masonry Cleaner	1:6	4	4
Substrate: Split-face block	Pigment Col	or: "Nathans Brown"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	3	3
Custom Masonry Cleaner	1:4	3	3
Custom Masonry Cleaner	1:6	4	4
Substrate: Split-face block	Pigment Col	or: "Brick Red"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	3	3
Custom Masonry Cleaner	1:4	3	3
Custom Masonry Cleaner	1:6	4	4
Substrate: Split-face block	Pigment Col	or: "Dusty Rose"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	3	3
Custom Masonry Cleaner	1:4	3	3
Custom Masonry Cleaner	1:6	4	4
Substrate: Split-face block	Pigment Col	or: "Lightweight Peach"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	3	3
Custom Masonry Cleaner	1:4	3	3
Custom Masonry Cleaner	1:6	4	4

Scale used for reporting results of both categories

0 – **Worst** match to through-body

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





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PHOTOGRAPHS – Color Uniformity

Sure Klean® Custom Masonry Cleaner (1:2) Sure Klean® Custom Masonry Cleaner (1:4)

"Brick Red" Split-face concrete block





CONCLUSIONS - COLOR UNIFORMITY:

All dilutions of Sure Klean[®] Custom Masonry Cleaner tested affected the substrate in a similar manner. Higher concentrations of cleaner removed moderate to heavy concentrations of pigmented matrix, exposing small and large aggregate. Lower concentrations of cleaner removed slight to moderate concentrations of pigmented matrix, exposing small and large aggregate. 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 Smithtown Concrete Products, Smithtown, NY are provided in the chart below. Recommendations are based on the optimum dilution that provides the best color uniformity.

СМU Туре	Color Uniformity
All submitted CMU's	Sure Klean [®] Custom Masonry Cleaner (1:6)

The most appropriate cleaner and dilution should be determined on the specific job-site, and will be dependent primarily on the nature and severity of soiling present at that location.

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





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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[®] Weather Seal Siloxane WB Concentrate – A self-emulsifying water repellent concentrate designed for dilution with fresh water at the jobsite. This solvent-free blend of silanes and oligomeric alkoxysiloxanes mixes easily with water to produce a penetrating water repellent ideal for application to dense or porous masonry surfaces.

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 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.





TEST RESULTS - Protective Water Repellents

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

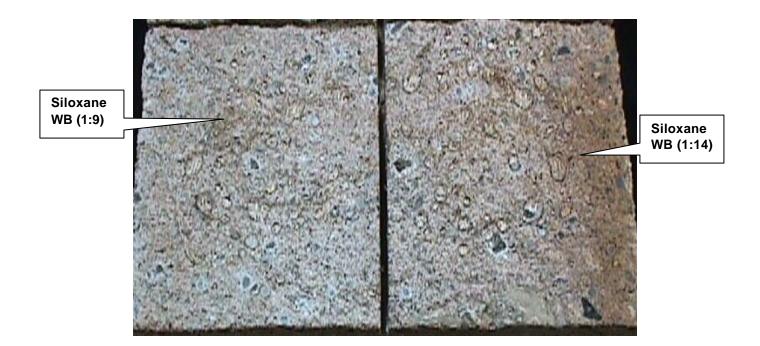
"Pekoe Orange, Heavy Salt" split-face Untreated Control Siloxane WB Concentrate (1:9) Siloxane WB Concentrate (1:14) "Nathans Brown" split-face Untreated Control Siloxane WB Concentrate (1:9) Siloxane WB Concentrate (1:14) "Brick Red" split-face Untreated Control Siloxane WB Concentrate (1:14) "Brick Red" split-face Untreated Control Siloxane WB Concentrate (1:14) "Brick Red" split-face Untreated Control Siloxane WB Concentrate (1:9) Siloxane WB Concentrate (1:9) Siloxane WB Concentrate (1:14) "Dusty Rose" split-face Untreated Control Siloxane WB Concentrate (1:14)	< 40 mph 56 mph 57 mph < 40 mph 56 mph 56 mph
Siloxane WB Concentrate (1:9) Siloxane WB Concentrate (1:14) "Nathans Brown" split-face Untreated Control Siloxane WB Concentrate (1:9) Siloxane WB Concentrate (1:14) "Brick Red" split-face Untreated Control Siloxane WB Concentrate (1:9) Siloxane WB Concentrate (1:14) "Dusty Rose" split-face Untreated Control Siloxane WB Concentrate (1:14)	56 mph 57 mph < 40 mph 56 mph
Siloxane WB Concentrate (1:14) "Nathans Brown" split-face Untreated Control Siloxane WB Concentrate (1:9) Siloxane WB Concentrate (1:14) "Brick Red" split-face Untreated Control Siloxane WB Concentrate (1:9) Siloxane WB Concentrate (1:14) "Dusty Rose" split-face Untreated Control Siloxane WB Concentrate (1:14)	57 mph < 40 mph 56 mph
"Nathans Brown" split-face Untreated Control Siloxane WB Concentrate (1:9) Siloxane WB Concentrate (1:14) "Brick Red" split-face Untreated Control Siloxane WB Concentrate (1:9) Siloxane WB Concentrate (1:14) "Dusty Rose" split-face Untreated Control Siloxane WB Concentrate (1:14)	< 40 mph 56 mph
Untreated Control Siloxane WB Concentrate (1:9) Siloxane WB Concentrate (1:14) "Brick Red" split-face Untreated Control Siloxane WB Concentrate (1:9) Siloxane WB Concentrate (1:14) "Dusty Rose" split-face Untreated Control Siloxane WB Concentrate (1:9)	56 mph
Siloxane WB Concentrate (1:9) Siloxane WB Concentrate (1:14) "Brick Red" split-face Untreated Control Siloxane WB Concentrate (1:9) Siloxane WB Concentrate (1:14) "Dusty Rose" split-face Untreated Control Siloxane WB Concentrate (1:9)	56 mph
Siloxane WB Concentrate (1:14) "Brick Red" split-face Untreated Control Siloxane WB Concentrate (1:9) Siloxane WB Concentrate (1:14) "Dusty Rose" split-face Untreated Control Siloxane WB Concentrate (1:9)	
"Brick Red" split-face Untreated Control Siloxane WB Concentrate (1:9) Siloxane WB Concentrate (1:14) "Dusty Rose" split-face Untreated Control Siloxane WB Concentrate (1:9)	56 mph
Untreated Control Siloxane WB Concentrate (1:9) Siloxane WB Concentrate (1:14) "Dusty Rose" split-face Untreated Control Siloxane WB Concentrate (1:9)	
Siloxane WB Concentrate (1:9) Siloxane WB Concentrate (1:14) "Dusty Rose" split-face Untreated Control Siloxane WB Concentrate (1:9)	
Siloxane WB Concentrate (1:14) "Dusty Rose" split-face Untreated Control Siloxane WB Concentrate (1:9)	< 40 mph
"Dusty Rose" split-face Untreated Control Siloxane WB Concentrate (1:9)	56 mph
Untreated Control Siloxane WB Concentrate (1:9)	59 mph
Siloxane WB Concentrate (1:9)	
	< 40 mph
	60 mph
Siloxane WB Concentrate (1:14)	60 mph
"Lightweight Peach" split-face	
Untreated Control	10 mph
Siloxane WB Concentrate (1:9)	< 40 mph
Siloxane WB Concentrate (1:14)	58 mph





PHOTOGRAPHS – Protective Water Repellents – Surface Beading

"Lightweight Peach" Split-face CMU







CONCLUSIONS - Protective Water Repellents

Based upon laboratory evaluations, Sure Klean[®] Weather Seal Siloxane WB Concentrate diluted with both nine and fourteen parts fresh water provided effective water repellency to all of the submitted samples.

RECOMMENDATIONS - PROTECTIVE WATER REPELLENTS

Recommendations for water repellency treatment for each type of CMU submitted by Smithtown Concrete Products, Smithtown, NY 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.

СМU Туре	Water Repellent
All submitted CMU's	Sure Klean [®] Weather Seal Siloxane WB Concentrate (1:9) OR
	Sure Klean [®] Weather Seal Siloxane WB Concentrate (1:14)

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

Defacer Eraser[®] **Graffiti Barrier S** – A clear, water-based sacrificial coating for control of graffiti on most building surfaces. Easy-to-apply Graffiti Barrier S stops spray paints, crayons, and ink from penetrating and staining the underlying surface.

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 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.

Defacer Eraser[®] Graffiti Release - An easy-to-use graffiti remover that does not contain methanol, methylene chloride, or other "halogenated" solvents prohibited on many projects. Removes a variety of graffiti stains from most smooth masonry, wood, and metal surfaces. Gel consistency reduces spills and waste.

Graffiti Agents

Interior/Exterior Spray Paint (Red) Permanent Marker (Green) Permanent Marker (Red) Permanent Marker (Black)

SAMPLE PREPARATION – Graffiti Control

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

Sections of the concrete samples were treated with Defacer Eraser[®] Graffiti Barrier S in accordance with PROSOCO, Inc.'s Product Guide application recommendations and then allowed to cure for a 24 hour period. At the end of the period, a visual adverse effects evaluation was made and the graffiti agents were applied to the substrates.

Spray paint and markers were applied as graffiti agents to all treated surfaces at least 24 hours following application of Defacer Eraser[®] Graffiti Barrier S. Removal of graffiti agents was attempted 24 hours after the application of the graffiti agents with Defacer Eraser[®] Graffiti Wipe, Sure Klean[®] Fast Acting Stripper, and Defacer Eraser[®] Graffiti Release.





TEST METHOD – Graffiti Control

Chemical cleaners were evaluated using the following procedure:

1. Apply the product to a dry surface that has been soiled with graffiti.

2. Allow appropriate dwell time:

Fast Acting Stripper	20 minutes
Graffiti Wipe	5 minutes
Graffiti Release	15 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.

TEST RESULTS – Graffiti Control

"Pekoe Orange, Heavy Salt" split-face block					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	60%	70%	65%	70%	66%
Graffiti Wipe	70%	60%	70%	75%	65%
Graffiti Release	60%	60%	70%	70%	69%
Graffiti Barrier S	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	97%	100%	98%
Graffiti Wipe	80%	85%	80%	80%	81%
Graffiti Release	70%	90%	90%	90%	85%
"Nathans Brown" split-face block					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	70%	70%	60%	70%	68%
Graffiti Wipe	70%	60%	60%	60%	63%
Graffiti Release	70%	60%	60%	60%	63%
Graffiti Barrier S	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	95%	95%	96%
Fast Acting Stripper Graffiti Wipe		100% 95%	95% 90%	95% 85%	96% 89%





TEST RESULTS - Graffiti Control (cont.)

	"Brick Red" split-face block				
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	70%	80%	60%	75%	71%
Graffiti Wipe	70%	70%	60%	65%	66%
Graffiti Release	70%	70%	60%	60%	65%
Graffiti Barrier S	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	100%	100%	100%	100%	100%
Graffiti Wipe	95%	100%	97%	100%	98%
Graffiti Release	70%	100%	97%	95%	91%
	"Dusty Rose	" split-face bl	ock		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	70%	70%	60%	60%	65%
Graffiti Wipe	70%	60%	60%	60%	63%
Graffiti Release	70%	60%	60%	65%	64%
Graffiti Barrier S	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	90%	95%	95%	94%
Graffiti Wipe	85%	90%	90%	80%	86%
Graffiti Release	75%	90%	85%	85%	84%
"Lightweight Peach" split-face block					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	70%	80%	60%	70%	70%
Graffiti Wipe	70%	75%	60%	60%	66%
Graffiti Release	70%	70%	60%	60%	65%
Graffiti Barrier S	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	100%	95%	98%
Graffiti Wipe	85%	95%	95%	95%	93%
Graffiti Release	80%	100%	95%	100%	94%

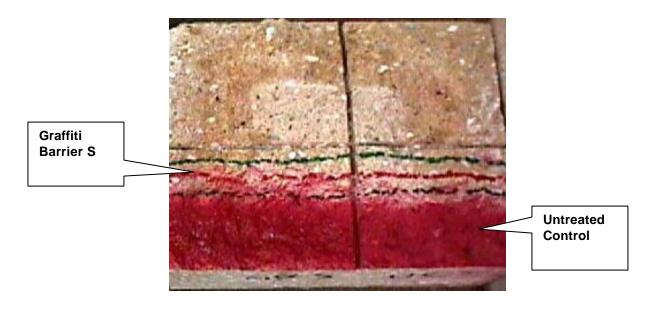




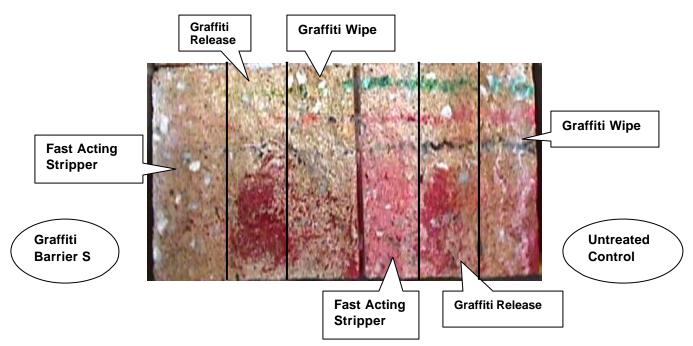
PHOTOGRAPHS – Graffiti Control

"Pekoe Orange, Heavy Salt" Split-face CMU

Before Graffiti Removal



After Graffiti Removal







CONCLUSIONS – Graffiti Control

Based upon laboratory evaluations, Sure Klean[®] Fast Acting Stripper was most effective at removing graffiti from the submitted samples. Graffiti removal was improved when the submitted samples were treated with Defacer Eraser[®] Graffiti Barrier S prior to graffiti application.

RECOMMENDATIONS – GRAFFITI CONTROL

Recommendations for graffiti control treatment for each type of CMU submitted by Smithtown Concrete Products in Smithtown, NY 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.

СМU Туре	Graffiti Repellents	Graffiti Removers
All submitted CMU's	Defacer Eraser [®] Graffiti Barrier S	Sure Klean [®] Fast Acting Stripper

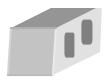
NOTE: Although Sure Klean[®] Fast Acting Stripper was the most effective product used for graffiti removal, Defacer Eraser[®] Graffiti Wipe and Defacer Eraser[®] Graffiti Release can also be used on the submitted Smithtown CMU's if needed. Both Defacer Eraser[®] products provided efficient graffiti removal on the submitted CMU's.

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 procedure for a particular project. See product literature for additional application and product information.

utrey Williams

Courtney A. Williams Project Testing Coordinator

CAW/



Laboratory Report

Pallet Tag Program Evaluation

Smithtown Concrete Products Smithtown, NY

Project No. 0211-01 PTP

Prepared For:

Linda Hoberg Smithtown Concrete Products PO Box 612 Middle Country Rd & Arthur Drive Smithtown, NY 11787-0612

Prepared By:



PROSOCO, Inc. December 2002