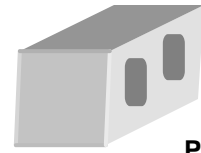




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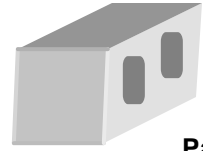
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ATTACHMENTS

Attachment #1 – PHOTO A & B

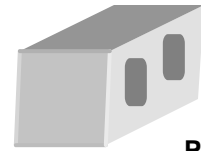
Attachment #2 – PHOTO C, D, & E

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

Product Data literature for all products evaluated



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FOR: Tim Hellmich
cc: Perry Surber
John Bourne

SUBJECT: Devening Block, Inc.
Columbus, IN

DATE: November 2, 2001

PROJECT: 0109-09 BP

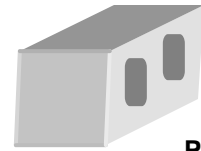
SAMPLES SUBMITTED: Seven different colors of concrete split-face CMUs

<u>Sample</u>	<u>Color</u>	<u>Size</u>
(4) Split-face CMU	"Natural"	8" x 8" x 16"
(4) Split-face CMU	"Buff"	8" x 10" x 16"
(4) Split-face CMU	"White"	8" x 8" x 16"
(4) Split-face CMU	"385 9-lb"	8" x 8" x 16"
(4) Split-face CMU	"Red 160 20-lb"	8" x 8" x 16"
(4) Split-face CMU	"620 20-lb"	8" x 3.5" x 16"
(4) Split-face CMU (w/ Dry Block)	"Palimino 3-lb"	8" x 8" x 16"

Submitted by: Perry Surber



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PURPOSE OF TESTING

Seven different integrally colored split-face CMUs with large, small and fine aggregate were submitted for testing using PROSOCO, Inc.'s new construction cleaning and water-repellent products.

A. Cleaning Concrete Masonry Units – Sure Klean[®] Custom Masonry Cleaner was tested at various dilutions for the removal of laboratory applied mortar from the 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[®] 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[®] 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[®] 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.**

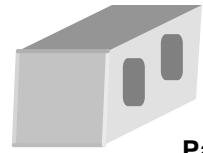
Integrally colored concrete masonry units (CMUs) frequently have high amounts of pigments concentrated on the surface of the cured concrete unit. Variation of surface pigment concentrations from one CMU to the next creates a blotchy appearance in the completed wall. Allowed to remain on the surface of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

C. Protective Water Repellents – Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control was evaluated for its ability to provide water repellency to the submitted samples.



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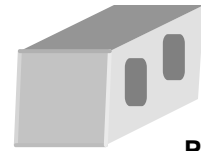
PROSOCO, Inc.

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D. Graffiti Control – Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control and Defacer Eraser[®] Sacrificial Coating SC-1 were evaluated for their ability to control graffiti on the submitted CMUs. Defacer Eraser[®] Graffiti Wipe was evaluated for its ability to remove graffiti from the submitted CMUs.



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CLEANING PRODUCTS EVALUATED

SAMPLE	PRODUCT	DILUTION
All colors of split-face CMUs	Sure Klean [®] Custom Masonry Cleaner	1:2
		1:4
		1:6

SURFACE ALTERATION PRODUCTS EVALUATED

SAMPLE	PRODUCT	DILUTION
All colors of split-face CMUs	Sure Klean [®] Custom Masonry Cleaner	1:2
		1:4
		1:6

WATER REPELLENT PRODUCTS EVALUATED

SAMPLE	PRODUCT
All colors of split-face CMUs	Sure Klean [®] Weather Seal Blok-Guard [®] & Graffiti Control

GRAFFITI CONTROL PRODUCTS EVALUATED

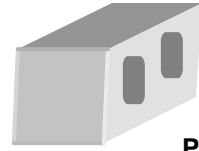
SAMPLE	PRODUCT
All colors of split-face CMUs	Sure Klean [®] Weather Seal Blok-Guard [®] & Graffiti Control
	Defacer Eraser [®] Sacrificial Coating SC-1

GRAFFITI REMOVAL PRODUCTS EVALUATED

SAMPLE	PRODUCT
All colors of split-face CMUs	Defacer Eraser [®] Sacrificial Coating SC-1



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SECTION A – CLEANING INTEGRALLY COLORED CMUs

DESCRIPTION OF PRODUCTS EVALUATED – Cleaning

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

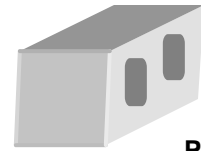
Dilution ratios refer to mixtures of parts concentrated cleaner : parts fresh water. Chemical cleaners were evaluated using the following procedure:

1. Prewet the surface with water.
2. Apply the cleaner at the appropriate dilutions.
3. Allow appropriate exposure time:
 Custom Masonry Cleaner 3 minutes
4. Reapply the product 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 split-face CMUs	Custom Masonry Cleaner	1:2	3 day	100%
		1:4		99%
		1:6		98%
		1:2	7 day	100%
		1:4		99%
		1:6		98%
		1:2	14 day	100%
		1:4		99%
		1:6		98%

CONCLUSIONS – Cleaning

Based on the test data, all of the submitted CMUs 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 heavy concentrations of pigmented matrix from the CMUs, exposing small and large aggregate, and enhancing the natural appearance of the integrally colored concrete masonry unit.

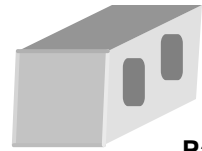
RECOMMENDATIONS – Cleaning

Based on these evaluations, all dilutions of Sure Klean[®] Custom Masonry Cleaner tested can be recommended for job-site testing on the split-face CMUs submitted by Devening Block, Inc., Columbus, IN. They all are effective in removing excess mortar, and they all assist in improving the color and uniformity of these CMUs. 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[®] 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 Alterations

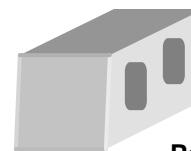
Dilution ratios refer to mixtures of parts concentrated cleaner : parts fresh water. Chemical cleaners were evaluated using the following procedure:

1. Prewet the surface with water.
2. Apply the 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 – Surface Alterations

Substrate: Split-face CMU		Pigment Color: "Natural"			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:2	3	2	3	0
Custom Masonry Cleaner	1:4	2	2	2	0
Custom Masonry Cleaner	1:6	1	1	1	0
Substrate: Split-face CMU		Pigment Color: "Buff"			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:2	3	2	3	0
Custom Masonry Cleaner	1:4	2	2	2	0
Custom Masonry Cleaner	1:6	1	1	1	0
Substrate: Split-face CMU		Pigment Color: "White"			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:2	2	1	2	0
Custom Masonry Cleaner	1:4	2	1	2	0
Custom Masonry Cleaner	1:6	1	1	1	0
Substrate: Split-face CMU		Pigment Color: "385 9-lb"			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:2	3	2	3	0
Custom Masonry Cleaner	1:4	2	2	2	0
Custom Masonry Cleaner	1:6	1	1	1	0
Substrate: Split-face CMU		Pigment Color: "Red 160 20-lb"			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:2	3	2	3	0
Custom Masonry Cleaner	1:4	2	2	2	0
Custom Masonry Cleaner	1:6	1	1	1	0

Scale used for reporting results of all categories

0 – no change

3 – heavy

1 – slight

4 – excessive

2 – moderate



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TEST RESULTS – Surface Alterations Continued

Substrate: Split-face CMU		Pigment Color: “620 20-lb”			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:2	3	2	3	0
Custom Masonry Cleaner	1:4	2	2	2	0
Custom Masonry Cleaner	1:6	1	1	1	0
Substrate: Split-face CMU		Pigment Color: “Palimino 3-lb”			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:2	3	2	3	0
Custom Masonry Cleaner	1:4	2	2	2	0
Custom Masonry Cleaner	1:6	1	1	1	0

Scale used for reporting results of all categories

0 – no change

3 – heavy

1 – slight

4 – excessive

2 – moderate

CONCLUSIONS – Surface Alterations

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

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

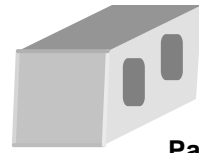
RECOMMENDATIONS – Surface Alterations

Based on these evaluations, all dilutions of Sure Klean[®] Custom Masonry Cleaner tested can be recommended for job-site testing on the split-face CMUs submitted by Devening Block, Inc., Columbus, IN. They all are effective in removing excess mortar and assist in improving the color and uniformity of these CMUs. 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[®] 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[®] Weather Seal Blok-Guard[®] & Graffiti Control - A clear, solvent-based silicone elastomer formulated to weatherproof custom masonry units, cast stone, and concrete block without altering the natural appearance. Blok-Guard[®] & Graffiti Control 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.

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 72 hours prior to testing.

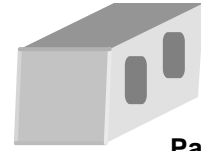
TEST METHODS – Protective Water Repellents

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

The water absorption tube test simulating wind driven rain conditions was performed. This test simulates 60 mile per hour wind driven rain conditions for a period of 20 minutes.



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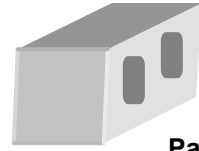
TEST RESULTS – Protective Water Repellents

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

RESULTS	
Split-face CMU "Natural"	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Split-face CMU "Buff"	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Split-face CMU "White"	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Split-face CMU "385 9-lb"	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Split-face CMU "Red 160 20-lb"	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Split-face CMU "620 20-lb"	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph
Split-face CMU "Palimino 3-lb"	
Untreated Control	<40 mph
Blok-Guard [®] & Graffiti Control	60 mph



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CONCLUSIONS – Protective Water Repellents

Based upon laboratory evaluations, Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control provided above average water repellency on all of the submitted split-face CMUs. Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control also enhanced the natural color of the CMUs.

NOTE: See Attachment #1 "PHOTO B" for visual color enhancement.

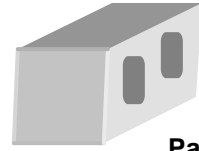
RECOMMENDATIONS – Protective Water Repellents

Based on evaluations, Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control can be recommended for job-site testing on all of the split-face CMUs submitted by Devening Block, Inc., Columbus, IN.

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 custom masonry units, cast stone, and concrete block without altering the natural appearance. Blok-Guard[®] & Graffiti Control 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.

Defacer Eraser[®] 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:

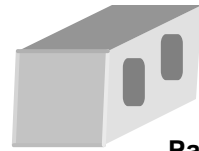
Defacer Eraser[®] Graffiti Wipe – An easy-to-use graffiti remover that does not contain methanol, methylene chloride or other “halogenated” solvents prohibited on many projects. Graffiti Wipe removes a variety of graffiti stains from most smooth masonry, wood and metal surfaces.

Graffiti Agents:

Krylon[®] Interior/Exterior Paint (2101 Cherry Red)
Krylon[®] Interior/Exterior Paint (1601 Glossy Black)
Sanford[®] King Size[™] Permanent Marker (Green)
Sanford[®] King Size[™] Permanent Marker (Red)
Sanford[®] King Size[™] 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.

Sections of the split-face CMUs were treated with one coat of Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control in accordance with PROSOCO, Inc.'s Product Guide application recommendations, then allowed to cure for one week. Also, sections of the split-face CMUs were treated with Defacer Eraser[®] Sacrificial Coating SC-1 and allowed to cure sufficiently. At the end of the one-week 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 7 days following application of Sure Klean[®] Weather Seal Blok-Guard[®] and Graffiti Control and Defacer Eraser[®] Sacrificial Coating SC-1. Removal of the graffiti agents was attempted 24 hours after application of the graffiti agents, using Defacer Eraser[®] Graffiti Wipe.

TEST METHOD – Cleaning

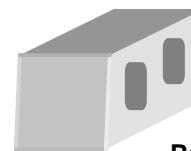
Chemical cleaners were evaluated using the following procedure:

1. Apply the product to a dry surface, soiled with graffiti.
2. Allow appropriate dwell time:
Graffiti Wipe.....5 minutes
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

“Natural” Split-face CMU						
Untreated Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	95%	99%	95%	95%	10%	78.8%
Blok-Guard® & Graffiti Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	99%	98%	80%	80%	80%	87.4%
SC-1	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	99%	99%	50%	50%	50%	69.6%
“Buff” Split-face CMU						
Untreated Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	98%	98%	10%	10%	10%	45.2%
Blok-Guard® & Graffiti Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	99%	99%	97%	98%	99%	98.4%
SC-1	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	98%	98%	50%	50%	50%	69.2%
“White” Split-face CMU						
Untreated Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	95%	95%	20%	20%	20%	50.0%
Blok-Guard® & Graffiti Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	98%	98%	20%	20%	20%	51.2%
SC-1	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	98%	98%	50%	50%	50%	60.2%



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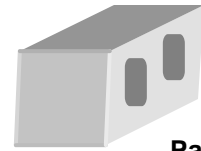
TEST RESULTS: Graffiti Removal Continued

“385 9-lb” Split-face CMU						
Untreated Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	98%	98%	95%	95%	95%	96.2%
Blok-Guard® & Graffiti Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	98%	98%	97%	97%	97%	97.4%
SC-1	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	98%	98%	50%	50%	50%	69.2%
“Red 160 20-lb” Split-face CMU						
Untreated Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	98%	98%	50%	50%	10%	61.2%
Blok-Guard® & Graffiti Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	95%	95%	80%	80%	70%	84.0%
SC-1	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*
“620 20-lb” Split-face CMU						
Untreated Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	99%	99%	50%	50%	50%	69.6%
Blok-Guard® & Graffiti Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	99%	99%	80%	80%	80%	87.6%
SC-1	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*

* The application of Defacer Eraser® SC-1 on this block type had an adverse effect and the treatment turned white on the surface of the sample. Graffiti testing was not performed due to this adverse effect.



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PROSOCO, Inc.

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TEST RESULTS: Graffiti Removal Continued

"Palimino 3-lb" Split-face CMU						
Untreated Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	50%	50%	10%	10%	10%	26.0%
Blok-Guard® & Graffiti Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	98%	98%	80%	80%	80%	87.2%
SC-1	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	98%	98%	10%	10%	10%	45.2%

CONCLUSIONS – Graffiti Control:

Based upon laboratory evaluations, Defacer Eraser® Graffiti Wipe effectively removed graffiti from most of the submitted samples. The "White" CMU had the most difficulty in graffiti removal, but still removed slightly more graffiti than from the untreated control. Removal was improved when the surfaces were treated with either Sure Klean® Weather Seal Blok-Guard® & Graffiti Control or Defacer Eraser® Sacrificial Coating SC-1. However, Defacer Eraser® Sacrificial Coating SC-1 caused an unsightly blush on the CMU styles "Red 160 20-lb" and "620 20-lb". Sure Klean® Weather Seal Blok-Guard® & Graffiti Control provided the best protection without blushing and also enhanced the natural appearance of the substrate.

NOTE: See Attachment #2 "PHOTO C, D, & E" for graffiti removal.

RECOMMENDATIONS – Graffiti Control:

Based on evaluations, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control is recommended for graffiti protection on all split-face CMUs. Defacer Eraser® Sacrificial Coating SC-1 can be recommended for graffiti protection on all split-face CMUs, except for styles "Red 160 20-lb" and "620 20-lb".

Defacer Eraser® Graffiti Wipe can be recommended for removal of graffiti in conjunction with both of the recommended graffiti protection treatments on all submitted samples from Devening Block, Inc., Columbus, IN.

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.

Jason L. Anderson
Materials Testing Technician

JLA/

Attachment #1

PHOTO A – “385 9-lb” after cleaning.

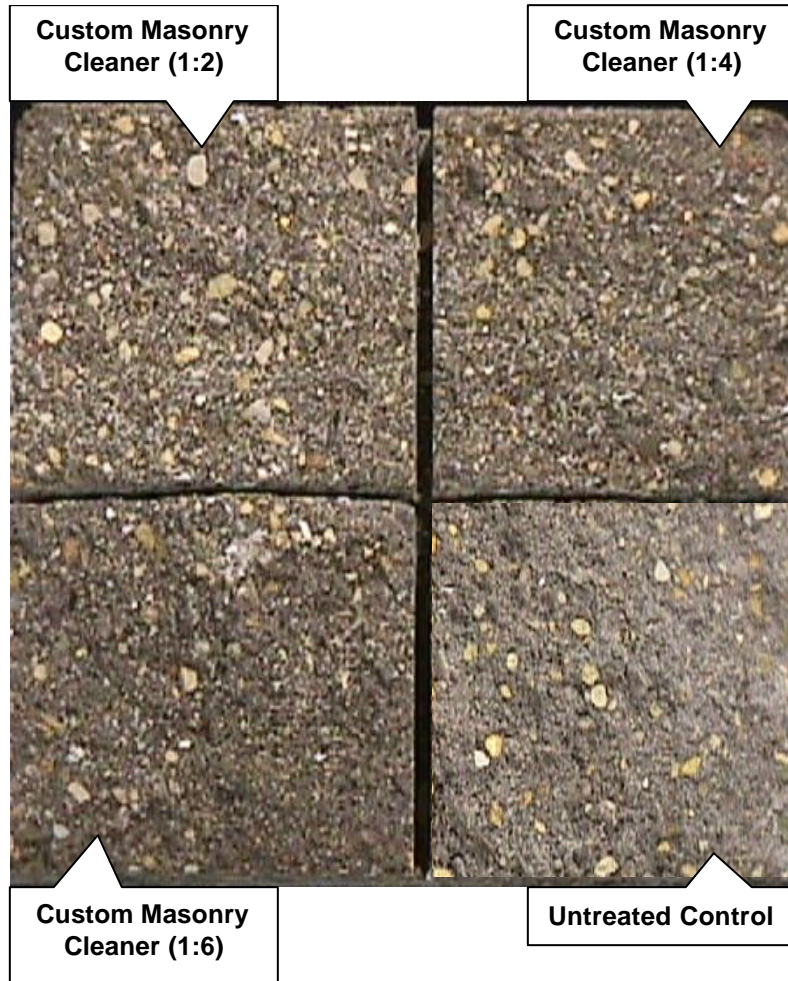
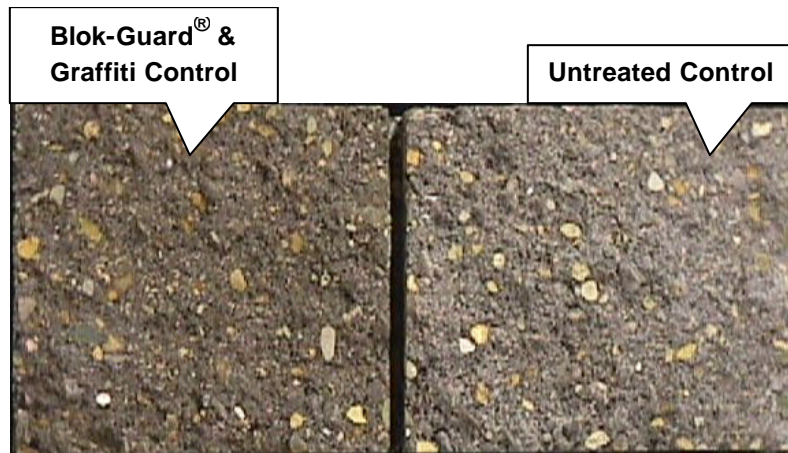


PHOTO B – “385 9-lb” treated with Blok-Guard® & Graffiti Control.



Attachment #2

**PHOTO C – “385 9-lb”
Untreated Control**



Uncleaned

**Graffiti
Wipe**

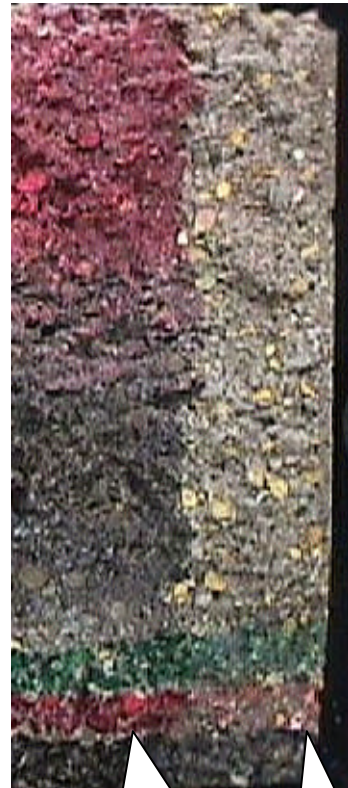
**PHOTO D – “385 9-lb”
Blok-Guard® & Graffiti Control**



Uncleaned

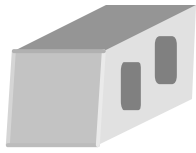
**Graffiti
Wipe**

**PHOTO E – “385 9-lb”
SC-1**



Uncleaned

**Graffiti
Wipe**



Laboratory Report

Block Program Evaluation

**Devening Block, Inc.
Columbus, IN**

Project No. 0109-09 BP

Prepared For:

**Tim Hellmich
Devening Block, Inc.
895 Jonesville Rd.
Columbus, IN 47202**

Prepared By:



***PROSOCO, Inc.
November 2001***

PROSOCO, Inc.
LABORATORY REPORT



PROSOCO, Inc. • 3741 Greenway Circle • Lawrence, Kansas 66046 • (785) 865-4200 • Fax: (785) 830-9176

FOR: Tim Hellmich
cc: Perry Surber
John Bourne

SUBJECT: Devening Block Inc.
Columbus, IN
Water Repellency Evaluation

DATE: January 9, 2002
PROJECT: 0109-09 BP
Addendum to Block Program

SAMPLES SUBMITTED:

Sample	Color:	Size:
(4) Split-face CMU	"Natural"	8" x 8" x 16"
(4) Split-face CMU	"Buff"	8" x 10" x 16"
(4) Split-face CMU	"White"	8" x 8" x 16"
(4) Split-face CMU	"385 9-lb"	8" x 8" x 16"
(4) Split-face CMU	"Red 160 20-lb"	8" x 8" x 16"
(4) Split-face CMU	"620 20-lb"	8" x 3.5" x 16"
(4) Split-face CMU (w/ Dry Block)	"Palimino 3-lb"	8" x 8" x 16"

Submitted by: Perry Surber

PURPOSE OF TEST:

To determine the effectiveness of Sure Klean[®] Weather Seal treatments applied to vertical installations of the submitted split-face CMUs.

SAMPLE PREPARATION:

Dilution ratios refer to mixtures of parts concentrate : parts fresh water.

Products Evaluated:
Sure Klean[®] Weather Seal Siloxane WB Concentrate

Dilution:
1:9, 1:14

SAMPLE PREPARATION:

The submitted blocks were scored and then allowed to dry, and to reabsorb atmospheric humidity for 24 hours prior to treatment. The weather seal treatment consisted of a wet-on-wet brush application. All treatments were allowed to cure at least 72 hours prior to testing.



TEST METHODS:

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.

TEST RESULTS:

Water Absorption Tube Test: RILEM II.4, 2.5 Milliliters, 20 Minutes

	RESULTS
Split-face CMU "Natural"	
Untreated Control	<40 mph
Siloxane WB Concentrate (1:9)	58 mph
Siloxane WB Concentrate (1:14)	59 mph
Split-face CMU "Buff"	
Untreated Control	<40 mph
Siloxane WB Concentrate (1:9)	58 mph
Siloxane WB Concentrate (1:14)	58 mph
Split-face CMU "White"	
Untreated Control	<40 mph
Siloxane WB Concentrate (1:9)	58 mph
Siloxane WB Concentrate (1:14)	58 mph
Split-face CMU "385 9-lb"	
Untreated Control	<40 mph
Siloxane WB Concentrate (1:9)	<40 mph
Siloxane WB Concentrate (1:14)	<40 mph
Split-face CMU "Red 160 20-lb"	
Untreated Control	<40 mph
Siloxane WB Concentrate (1:9)	60 mph
Siloxane WB Concentrate (1:14)	58 mph
Split-face CMU "620 20-lb"	
Untreated Control	<40 mph
Siloxane WB Concentrate (1:9)	60 mph
Siloxane WB Concentrate (1:14)	60 mph
Split-face CMU "Palimino 3-lb"	
Untreated Control	<40 mph
Siloxane WB Concentrate (1:9)	58 mph
Siloxane WB Concentrate (1:14)	60 mph



CONCLUSIONS:

Based upon laboratory evaluations, all of the submitted split-face CMUs except for "385 9-lb" exhibited above average water repellency when treated with Sure Klean[®] Weather Seal Siloxane WB diluted with nine or fourteen parts fresh water.

RECOMMENDATIONS:

Based on the above test results, Sure Klean[®] Weather Seal Siloxane WB Concentrate diluted with nine or fourteen parts fresh water is recommended for job-site testing on all colors of the split-face CMUs, except for "385 9-lb", submitted by Devening Block, Inc., Columbus, IN. Refer to Block Program Evaluation 0109-09 BP for other recommendations for water repellency for "385 9-lb".

To a clean and dry surface, apply in a wet-on-wet saturating application. See product literature for additional application and product information. Coverage rates and application procedures should be confirmed by field test applications.

Jason L. Anderson
Materials Testing Technician

JLA/

ALL SAMPLES SUPPLIED FOR THE ABOVE EVALUATION WILL BE DISPOSED OF NINETY (90) DAYS AFTER THE ISSUE DATE OF THIS REPORT. IF SAMPLES ARE TO BE RETAINED FOR ADDITIONAL TESTING OR RETURNED TO THE SENDER, PROVIDE WRITTEN INSTRUCTIONS TO THE LABORATORY WITHIN NINETY (90) DAYS OF THE ISSUE DATE OF THIS REPORT.

Recommendations made within this report are based on laboratory test applications and observations. Final determination of the suitability of a product and/or procedure should be made only after thorough job testing on actual surfaces.