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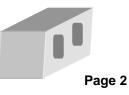
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ATTACHMENTS

Attachment #1 – PHOTOS A & B

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

Product Data literature for all products evaluated





- FOR:Perry Surbercc:John Bourne
- SUBJECT: Snyder Brick & Block 1733 Industrial Dr. Dayton, OH 45432
- **DATE:** August 17, 2001
- **PROJECT:** 0106-21 BP

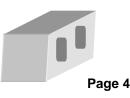
SAMPLES SUBMITTED: 5 colors of rough face CMUs.

Block	<u>Color</u>	<u>Size</u>
Rough face CMU	"Buff"	8" x 8" x 16"
Rough face CMU	'Red"	8" x 8" x 16
Rough face CMU	"Charcoal"	8" x 8" x 16
Rough face CMU	"Gray"	8" x 8" x 16
Rough face CMU	"Chocolate"	8" x 8" x 16

Submitted by:

Perry Surber





PURPOSE OF TESTING

Five colors of integrally colored rough face CMUs with large, small and fine aggregate were submitted for testing using PROSOCO's new construction cleaning, water repellent product and graffiti removal 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.

<u>Aggregate Exposure</u> 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.

<u>Surface Pigment Alteration/Removal*</u> 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.

<u>Matrix Erosion</u> 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.

<u>Staining</u> 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 and Sure Klean[®] Weather Seal Siloxane WB Concentrate were evaluated for thier ability to provide water repellency to the submitted samples.

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 rough face CMUs. Defacer Eraser[®] Graffiti Wipe and Sure Klean[®] Fast Acting Stripper were evaluated for their ability to remove graffiti from all of the submitted samples.





CLEANING PRODUCTS EVALUATED

BLOCK TYPE	Sure Klean [®] Custom Masonry Cleaner
	1:2*
All colors of rough face CMUs	1:4*
	1:6*

SURFACE ALTERATION PRODUCTS EVALUATED

BLOCK TYPE	Sure Klean [®] Custom Masonry Cleaner
	1:2*
All colors of rough face CMUs	1:4*
	1:6*

* Dilution ratio refers to mixtures of parts concentrated product : parts fresh water.

WATER REPELLENT PRODUCTS EVALUATED

BLOCK TYPE	PRODUCT	DILUTION
All colors of rough face CMUs	Sure Klean [®] Weather Seal Blok- Guard [®] & Graffiti Control	Concentrate
All colors of rough face clinos	Sure Klean [®] Weather Seal Siloxane WB Concentrate	1:9*,1:14*

GRAFFITI CONTROL PRODUCTS EVALUATED

BLOCK TYPE	PRODUCT	DILUTION
	Defacer Eraser [®] Sacrificial Coating SC-1	Concentrate
All colors of rough face CMUs	Sure Klean [®] Weather Seal Blok- Guard [®] & Graffiti Control	Concentrate
	Defacer Eraser [®] Graffiti Wipe	Concentrate
	Sure Klean [®] Fast Acting Stripper	Concentrate



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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.

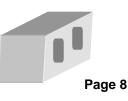
TEST METHOD – Cleaning

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.
- 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.





Test Results – Cleaning

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

CONCLUSIONS – Cleaning

Based on the test data, all of the submitted CMUs samples 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 minimal 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 split-face CMUs, exposing small and large aggregate, and enhancing the natural appearance of the integrally colored concrete masonry unit.

RECOMMENDED PRODUCTS AND DILUTIONS – Cleaning

Based on these evaluations, all of the dilutions of Sure Klean[®] Custom Masonry Cleaner tested can be recommended for job-site testing on all colors of the rough face CMUs submitted by Snyder Brick & Block, Dayton, OH. They all are effective in removing excess mortar, and they all 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 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:

Procedure:

- 1. Prewet the surface with water.
- 2. Apply the cleaner at the appropriate dilutions.
- 3. Allow appropriate exposure time:
- 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.





TEST RESULTS – Surface Alterations

Substrate: Rough face CMU	Pigment Co	olor: "Buff"			
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	2	1	2	0
Substrate: Rough face CMU	Pigment Co	olor: "Red"			
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	2	1	2	0
Substrate: Rough face CMU	Pigment Co	olor: "Charcoa	"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:2	1	1	0	0
Custom Masonry Cleaner	1:4	1	1	0	0
Custom Masonry Cleaner	1:6	1	1	0	0
Substrate: Rough face CMU	Pigment Co				
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
Substrate: Rough face CMU	Pigment Color: "Chocolate"				
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	2	1	2	0

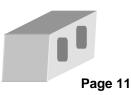
Scale used for reporting results of all categories

1 – slight

2 – moderate

3 – heavy 4 – excessive





CONCLUSIONS – Surface Alterations

Based on the 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 the rough face CMUs, exposing small and large aggregate, and enhancing the natural appearance.

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

RECOMMENDED PRODUCTS AND DILUTIONS – Surface Alterations

Based on these evaluations, all of the dilutions of Sure Klean[®] Custom Masonry Cleaner tested can be recommended for job-site testing on all colors of the rough face CMUs submitted by Snyder Brick & Block, Dayton, OH. They all are effective in removing excess mortar and 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 Custom Masonry Cleaner diluted with 6 parts fresh water.





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. Weather Seal 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.

Sure Klean[®] Weather Seal Siloxane WB Concentrate – A self-emulsifying water- repellent concentrate designed for dilution with fresh water at the job site. 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

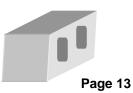
The submitted blocks were scored, allowed to dry, and to reabsorb atmospheric humidity for 24 hours prior to treatment. The treatment method consisted of a wet-on-wet brush application. All treatments were allowed to cure at least 72 hours prior to testing.

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.





TEST RESULTS – Protective Water Repellents

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

PRODUCT	RESULTS
"Buff"	
Untreated Control	<40 mph
Blok-Guard & Graffiti Control	60 mph
Siloxane WB (1:9)	<40 mph
Siloxane WB (1:14)	<40 mph
"Red"	
Untreated Control	<40 mph
Blok-Guard & Graffiti Control	60 mph
Siloxane WB (1:9)	<40 mph
Siloxane WB (1:14)	<40 mph
"Charcoal"	
Untreated Control	<40 mph
Blok-Guard & Graffiti Control	60 mph
Siloxane WB (1:9)	<40 mph
Siloxane WB (1:14)	<40 mph
"Gray"	
Untreated Control	<40 mph
Blok-Guard & Graffiti Control	60 mph
Siloxane WB (1:9)	<40 mph
Siloxane WB (1:14)	60 mph
"Chocolate"	
Untreated Control	<40 mph
Blok-Guard & Graffiti Control	60 mph
Siloxane WB (1:9)	<40 mph
Siloxane WB (1:14)	<40 mph





CONCLUSIONS – Protective Water Repellents

Based upon laboratory evaluations, all colors of the rough face CMUs exhibited above average water repellency when treated with Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control. Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control also enhanced the natural appearance of the submitted split-face CMUs. Sure Klean[®] Weather Seal Siloxane WB Concentrate did not provide water-repellent protection on all CMUs tested.

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

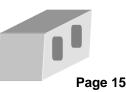
RECOMMENDATIONS – Protective Water Repellents

Based on evaluations, Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control can be recommended for jobsite testing on all colors of the split-face CMUs submitted by Snyder Brick & Block, Dayton, OH.

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:

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.

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. Fast Acting Stripper dissolves most spray paints, marking pens, lacquers and other graffiti.

Graffiti Agents:

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

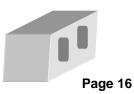
SAMPLE PREPARATION – Graffiti Control:

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

Sections of the rough-face CMUs were treated with Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control and 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 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[®] Graffiti Wipe and Sure Klean[®] Fast Acting Stripper.





TEST METHOD – Cleaning

Chemical cleaners were evaluated using the following procedure:

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

"Buff" rough face CMUs					
Untreated Control	Red Paint	Red Marker	Green Marker	Black Marker	Avg. Removal
Graffiti Wipe	88%	92%	88%	88%	89%
Fast Acting Stripper	90%	92%	84%	98%	91%
Blok-Guard & Graffiti Control	Red Paint	Red Marker	Green Marker	Black Marker	Avg. Removal
Graffiti Wipe	98%	90%	88%	90%	91%
Fast Acting Stripper	94%	98%	92%	98%	96%
SC-1	Red Paint	Red Marker	Green Marker	Black Marker	Avg. Removal
Graffiti Wipe	98%	90%	94%	92%	94%
Fast Acting Stripper	94%	98%	84%	98%	94%

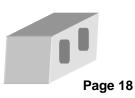




"Red" rough face CMUs					
Untreated Control	Red Paint	Red Marker	Green Marker	Black Marker	Avg. Removal
Graffiti Wipe	88%	88%	90%	88%	89%
Fast Acting Stripper	90%	94%	92%	88%	91%
Blok-Guard & Graffiti Control	Red Paint	Red Marker	Green Marker	Black Marker	Avg. Removal
Graffiti Wipe	90%	98%	94%	94%	94%
Fast Acting Stripper	92%	94%	88%	96%	93%
SC-1	Red Paint	Red Marker	Green Marker	Black Marker	Avg. Removal
Graffiti Wipe	97%	92%	94%	96%	93%
Fast Acting Stripper	98%	98%	88%	94	92%

"Charcoal" rough face CMUs					
Untreated Control	Red Paint	Red Marker	Green Marker	Black Marker	Avg. Removal
Graffiti Wipe	86%	90%	88%	82%	84%
Fast Acting Stripper	84%	90%	82%	88%	86%
Blok-Guard & Graffiti Control	Red Paint	Red Marker	Green Marker	Black Marker	Avg. Removal
Graffiti Wipe	94%	98%	84%	99%	94%
Fast Acting Stripper	96%	94%	94%	96%	95%
SC-1	Red Paint	Red Marker	Green Marker	Black Marker	Avg. Removal
Graffiti Wipe	98%	90%	94%	90%	93%
Fast Acting Stripper	94%	94%	90%	98%	94%



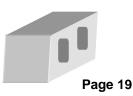


"Gray" rough face CMUs					
Untreated Control	Red Paint	Red Marker	Green Marker	Black Marker	Avg. Removal
Graffiti Wipe	90%	90%	90%	86%	89%
Fast Acting Stripper	86%	88%	86%	88%	87%
Blok-Guard & Graffiti Control	Red Paint	Red Marker	Green Marker	Black Marker	Avg. Removal
Graffiti Wipe	98%	98%	96%	96%	97%
Fast Acting Stripper	96%	96%	92%	96%	95%
SC-1	Red Paint	Red Marker	Green Marker	Black Marker	Avg. Removal
Graffiti Wipe	96%	94%	92%	94%	94%
Fast Acting Stripper	92%	92%	92%	96%	93%

Chocolate" rough face CMUs					
Untreated Control	Red Paint	Red Marker	Green Marker	Black Marker	Avg. Removal
Graffiti Wipe	92%	94%	94%	90%	92%
Fast Acting Stripper	94%	90%	86%	90%	90%
Blok-Guard & Graffiti Control	Red Paint	Red Marker	Green Marker	Black Marker	Avg. Removal
Graffiti Wipe	92%	98%	92%	94%	94%
Fast Acting Stripper	90%	96%	94%	96%	94%
SC-1	Red Paint	Red Marker	Green Marker	Black Marker	Avg. Removal
Graffiti Wipe	96%	96%	90%	98%	95%
Fast Acting Stripper	96%	90%	92%	90%	92%

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





CONCLUSIONS – Graffiti Control:

Based upon laboratory evaluations, Defacer Eraser[®] Graffiti Wipe and Sure Klean[®] Fast Acting Stripper both effectively removed graffiti from all submitted samples. Removal was improved when the surfaces were treated with Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control or Defacer Eraser[®] Sacrificial Coating SC-1. Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control also enhanced the natural appearance of the submitted samples while Defacer Eraser[®] Sacrificial Coating SC-1 did not alter the natural appearance of the rough-face CMUs in any way.

RECOMMENDATIONS – Graffiti Control:

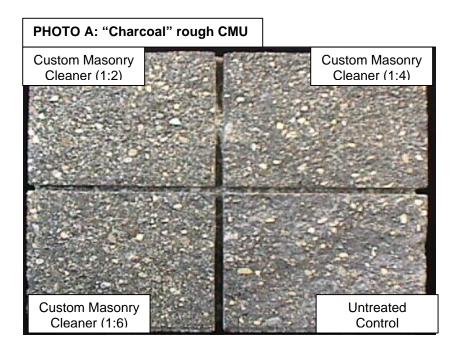
Based on evaluations, Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control and Defacer Eraser[®] Sacrificial Coating SC-1 are recommended for graffiti protection on all rough-face CMUs. Defacer Eraser[®] Graffiti Wipe and Sure Klean[®] Fast Acting Stripper can be recommended for removal of graffiti in conjunction with the recommended graffiti protection treatments on all submitted samples from Snyder Brick & Block, Dayton, OH.

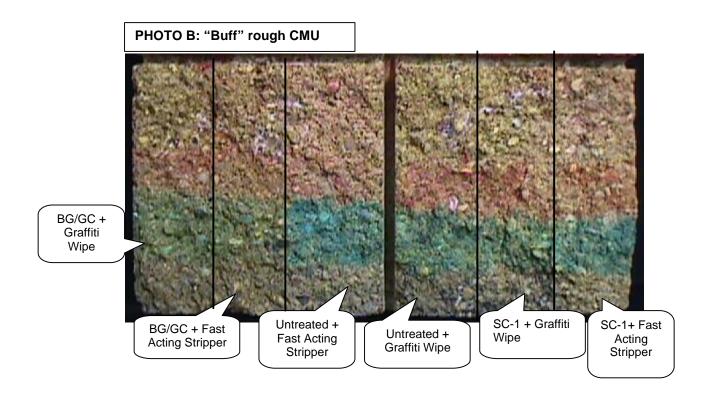
Jonald M. Mvathe

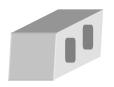
Donald M. Muathe Technical Analyst

DMM/

Attachment #1







Laboratory Report

Block Program Evaluation

Snyder Brick & Block Dayton, OH

Project No. 0106-21 BP

Prepared For:

Snyder Brick & Block 1733 Industrial Dr. Dayton, OH 45432

Prepared By:



PROSOCO, Inc. August 2001