



PALLET CARD PROGRAM LABORATORY REPORT

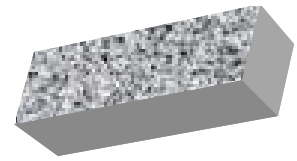


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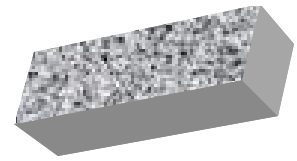
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ATTACHMENTS

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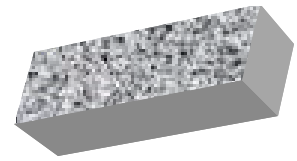
Attachment #2 – PHOTO C

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

Product Data literature for all products evaluated



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FOR: Mike Buechel
Cc: Jim Lucas
Perry Surber
John Bourne

SUBJECT: Buechel Stone Corporation
Chilton, WI

DATE: November 28, 2001

PROJECT: 0109-20 PC

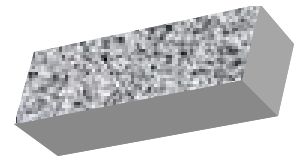
SAMPLES SUBMITTED: Seven types of dolomitic limestone veneer

Sample	Color/Finish	Size
"Wisconsin Castle Rock (Gray Buff)"	Gray, Buff	Various
"Wisconsin Castle Rock (Full Color)"	Red, Tan	Various
"Chilton Rustic"	Red, Brown	Various
"Chilton Country Squire"	Gray	Various
"Fond du Lac Castle Rock"	Gray	Various
"Fond du Lac Rustic"	Orange, Brown	Various
"Fond du Lac Country Squire"	Gray	Various

Submitted by: Jim Lucas



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PURPOSE OF TESTING

Seven different dolomitic limestone veneer samples were submitted to PROSOCO, Inc.'s Testing Laboratory with a request to determine if application of the cleaning products evaluated will produce any surface alterations during new construction cleaning operations. Additionally, the effectiveness of water repellents, stain repellents, and graffiti control products suitable for dolomitic limestone as well as treatments for color enhancement will be evaluated.

- A. New Construction Cleaning** – Sure Klean[®] Vana Trol[®] and Sure Klean[®] Burnished Custom Masonry Cleaner were evaluated for removal of laboratory applied Ash Grove[®] Type S mortar.

To simulate new construction soiling, the samples 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 sample 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 sample for 10 minutes before removal.

Soiled samples 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 mortar staining after 3, 7, and 14 days of curing.

- B. Surface Alteration Testing** – Sure Klean[®] Vana Trol[®] and Sure Klean[®] Burnished Custom Masonry Cleaner were tested 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 samples.

Surface Finish Removal is the visual examination of the sample comparing the surface finish of the untreated control surface to the surface finish cleaned with selected product(s) at given dilutions.

Substrate Deterioration is the visual examination of the sample comparing the surface of the untreated control to surfaces cleaned with selected product(s) at given dilutions looking for any potential erosion/digestion of the sample.

Color Change is the visual examination comparing the color of the untreated control surface to color of surfaces cleaned with selected products at given dilutions.

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

- C. Water Repellent Evaluation** – Sure Klean[®] Weather Seal Natural Stone Treatment, Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control, and Stand Off[®] Paver Enhancer were evaluated on the submitted samples for their ability to provide water repellency using RILEM Test Method No. II.4.

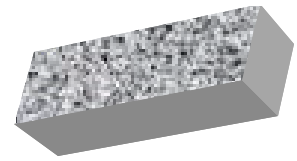
- D. Stain Repellent Evaluation** – Stand Off[®] Stone, Tile, & Masonry Protector was evaluated on the submitted samples for its ability to provide stain repellency to the submitted samples.

- E. Graffiti Control** – Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control was evaluated for its ability to control graffiti on the submitted samples. Defacer Eraser[®] Graffiti Wipe and Sure Klean[®] Fast Acting Stripper were evaluated for their ability to remove graffiti from the submitted samples.

- F. Color Enhancement** – Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control and Stand Off[®] Paver Enhancer were evaluated on the submitted samples for their ability to enhance the natural color of the submitted samples in relative comparison to the untreated surface's water-saturated appearance.



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CLEANING PRODUCTS

SAMPLE	PRODUCT	DILUTION
All types of dolomitic limestone veneer	Sure Klean [®] Vana Trol [®]	1:10
	Sure Klean [®] Burnished Custom Masonry Cleaner	1:3

SURFACE ALTERATION PRODUCTS EVALUATED

SAMPLE	PRODUCT	DILUTION
All types of dolomitic limestone veneer	Sure Klean [®] Vana Trol [®]	1:10
	Sure Klean [®] Burnished Custom Masonry Cleaner	1:3

WATER REPELLENT PRODUCTS EVALUATED

SAMPLE	PRODUCT
All types of dolomitic limestone veneer	Sure Klean [®] Weather Seal Natural Stone Treatment
	Sure Klean [®] Weather Seal Blok-Guard [®] & Graffiti Control
	Stand Off [®] Paver Enhancer

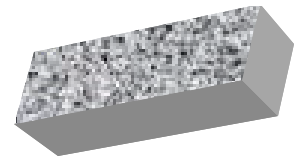
STAIN REPELLENT PRODUCTS EVALUATED

SAMPLE	PRODUCT
All types of dolomitic limestone veneer	Stand Off [®] Stone, Tile, & Masonry Protector

NOTE: Dilution ratios refer to mixtures of concentrated product : fresh water.



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GRAFFITI CONTROL PRODUCTS EVALUATED

SAMPLE	PRODUCT
All types of dolomitic limestone veneer	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control

GRAFFITI REMOVAL PRODUCTS EVALUATED

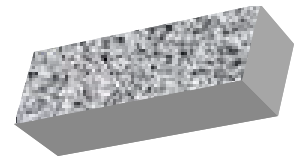
SAMPLE	PRODUCT
All types of dolomitic limestone veneer	Defacer Eraser® Graffiti Wipe
	Sure Klean® Fast Acting Stripper

COLOR ENHANCING PRODUCTS EVALUATED

SAMPLE	PRODUCT
All types of dolomitic limestone veneer	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control
	Stand Off® Paver Enhancer



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SECTION A – NEW CONSTRUCTION CLEANING

DESCRIPTION OF PRODUCTS EVALUATED – Cleaning

These cleaning trials were conducted to determine the optimal cleaning/cure time combination to most efficiently remove mortar from the submitted dolomitic limestone veneer samples.

The Ash Grove[®] Type S mortar was prepared in compliance with the manufacturers instructions, applied to the surface and allowed to cure for 3, 7, and 14 days prior to removal with high pressure water rinse using pressure rinsing equipment and chemical assist.

Sure Klean[®] Vana Trol[®] – A concentrated acidic cleaner for new masonry surfaces that are subject to vanadium, manganese, and other metallic stains. Can be used on most light colored brick, natural stone, and cast stone.

Sure Klean[®] Burnished Custom Masonry Cleaner – A general purpose, nonetching acidic cleaner for custom masonry and colored concrete. Removes rust, mud, oil, atmospheric dirt, and other stains without altering the surface texture. Liquid concentrate for dilution with 2-3 parts water. Apply by brush or low-pressure spray.

TEST METHOD – Cleaning

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

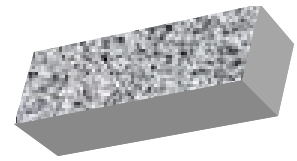
1. Pre-wet the surface with water.
2. Apply the cleaner.
3. Allow the appropriate dwell time, as specified.

Vana Trol [®]	5 minutes
Burnished Custom Masonry Cleaner	5 minutes
4. Pressure rinse thoroughly.*

* 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

% Mortar Removed

“Wisconsin Castle Rock (Buff Gray)”

	<u>3 day</u>	<u>7 day</u>	<u>14 day</u>
Vana Trol® (1:10)	98%	98%	98%
Burnished Custom Masonry Cleaner (1:3)	95%	95%	95%

“Wisconsin Castle Rock (Full Color)”

	<u>3 day</u>	<u>7 day</u>	<u>14 day</u>
Vana Trol® (1:10)	100%	100%	100%
Burnished Custom Masonry Cleaner (1:3)	95%	95%	95%

“Chilton Rustic”

	<u>3 day</u>	<u>7 day</u>	<u>14 day</u>
Vana Trol® (1:10)	99%	95%	95%
Burnished Custom Masonry Cleaner (1:3)	95%	95%	95%

“Chilton Country Squire”

	<u>3 day</u>	<u>7 day</u>	<u>14 day</u>
Vana Trol® (1:10)	99%	99%	99%
Burnished Custom Masonry Cleaner (1:3)	99%	99%	99%

“Fond du Lac Castle Rock”

	<u>3 day</u>	<u>7 day</u>	<u>14 day</u>
Vana Trol® (1:10)	98%	98%	98%
Burnished Custom Masonry Cleaner (1:3)	95%	95%	95%

“Fond du Lac Rustic”

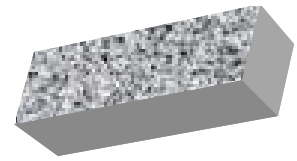
	<u>3 day</u>	<u>7 day</u>	<u>14 day</u>
Vana Trol® (1:10)	100%	100%	100%
Burnished Custom Masonry Cleaner (1:3)	99%	98%	98%

“Fond du Lac Country Squire”

	<u>3 day</u>	<u>7 day</u>	<u>14 day</u>
Vana Trol® (1:10)	100%	100%	100%
Burnished Custom Masonry Cleaner (1:3)	99%	98%	98%



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CONCLUSIONS – Cleaning

Based on the test results, both Sure Klean® Vana Trol® and Sure Klean® Burnished Custom Masonry Cleaner were effective at removing the Ash Grove® Type S mortar from the surface of the dolomitic limestone veneer samples. Sure Klean® Vana Trol® appeared to be slightly more effective than Sure Klean® Burnished Custom Masonry Cleaner at removing the mortar stains.

It is also recommended that the selected cleaners always be used in the lowest possible concentration, typically a 1:10 dilution for Sure Klean® Vana Trol® and a 1:3 dilution for Sure Klean® Burnished Custom Masonry Cleaner. To facilitate easier removal of excess grout and construction dirt while minimizing any potential adverse effects on the finish, rinse with low pressure (garden hose strength), and clean within 3 days of construction.

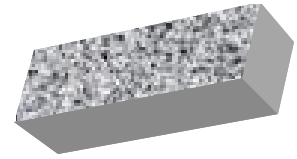
RECOMMENDED PRODUCTS AND DILUTIONS – Cleaning

SAMPLE	Sure Klean® Vana Trol®	Sure Klean® Burnished Custom Masonry Cleaner
“Wisconsin Castle Rock (Gray Buff)”	1:10	1:3
“Wisconsin Castle Rock (Full Color)”	1:10	1:3
“Chilton Rustic”	1:10*	1:3*
“Chilton Country Squire”	1:10	1:3
“Fond du Lac Castle Rock”	1:10	1:3
“Fond du Lac Rustic”	1:10	1:3
“Fond du Lac Country Squire”	1:10	1:3

* Extra care should be used on this veneer type due to the severity of surface finish removal. Job-site testing should be performed using low pressure rinsing to minimize the removal of the surface finish.



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SECTION B – SURFACE ALTERATIONS

DESCRIPTION OF PRODUCTS EVALUATED – Surface Alterations

Sure Klean® Vana Trol® – A concentrated acidic cleaner for new masonry surfaces that are subject to vanadium, manganese, and other metallic stains. Can be used on most light colored brick, natural stone, and cast stone.

Sure Klean® Burnished Custom Masonry Cleaner – A general purpose, nonetching acidic cleaner for custom masonry and colored concrete. Removes rust, mud, oil, atmospheric dirt, and other stains without altering the surface texture. Liquid concentrate for dilution with 2-3 parts water. Apply by brush or low-pressure spray.

TEST METHOD – Surface Alterations

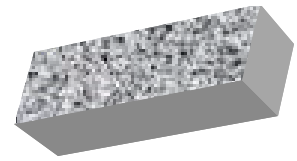
Dilution ratios refer to mixtures of concentrated cleaner : fresh water. Chemical cleaners were evaluated using the following procedure

1. Pre-wet the surface with water.
2. Apply the cleaner.
3. Allow the appropriate dwell time, as specified.
 - Vana Trol®5 minutes
 - Burnished Custom Masonry Cleaner5 minutes
4. Pressure rinse thoroughly.*

* 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: "Wisconsin Castle Rock (Gray Buff)"		Pigment Color: Gray, Buff			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Vana Trol®	1:10	1	0	0	0
Burnished Custom Masonry Clnr	1:3	1	0	0	0
Substrate: "Wisconsin Castle Rock (Full Color)"		Pigment Color: Red, Tan			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Vana Trol®	1:10	1	0	0	0
Burnished Custom Masonry Clnr	1:3	1	0	0	0
Substrate: "Chilton Rustic"		Pigment Color: Red, Brown			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Vana Trol®	1:10	3	0	3	0
Burnished Custom Masonry Clnr	1:3	3	0	3	0
Substrate: "Chilton Country Squire"		Pigment Color: Gray			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Vana Trol®	1:10	0	0	0	0
Burnished Custom Masonry Clnr	1:3	0	0	0	0
Substrate: "Fond du Lac Castle Rock"		Pigment Color: Gray			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Vana Trol®	1:10	1	0	0	0
Burnished Custom Masonry Clnr	1:3	1	0	0	0
Substrate: "Fond du Lac Rustic"		Pigment Color: Orange, Brown			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Vana Trol®	1:10	0	0	0	0
Burnished Custom Masonry Clnr	1:3	0	0	0	0
Substrate: "Fond du Lac Country Squire"		Pigment Color: Gray			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Vana Trol®	1:10	0	0	0	0
Burnished Custom Masonry Clnr	1:3	0	0	0	0

0 – no change

1 – slight change

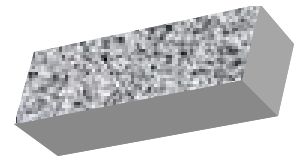
2 – moderate change

3 – heavy change

4 – excessive change



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CONCLUSIONS – Surface Alterations

Test results indicate both Sure Klean[®] Vana Trol[®] and Sure Klean[®] Burnished Custom Masonry Cleaner removed heavy amounts of the surface finish from the veneer type “Chilton Rustic”. The cleaners only removed slight amounts of the surface pigment from the other veneer types.

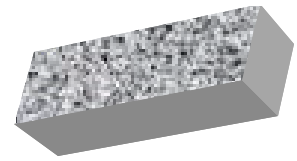
It is also recommended that the selected cleaners always be used in the lowest possible concentration, typically a 1:10 dilution for Sure Klean[®] Vana Trol[®] and a 1:3 dilution for Sure Klean[®] Burnished Custom Masonry Cleaner. To facilitate easier removal of excess mortar and construction dirt while minimizing any surface finish removal, rinse with low pressure (garden hose strength), and clean within 3 days of construction.

NOTE: See Attachment #1 “PHOTO A”.

RECOMMENDATIONS – Surface Alterations

Based on these evaluations, both Sure Klean[®] Vana Trol[®] and Sure Klean[®] Burnished Custom Masonry Cleaner can be recommended for all dolomitic limestone veneer samples submitted by Buechel Stone Corporation, Chilton, WI. To minimize any surface finish removal on the submitted dolomitic limestone veneer samples, particularly “Chilton Rustic”, cleaners should be used in the lowest possible concentration. Rinse thoroughly with low water pressure, garden hose strength, to minimize removal of the surface finish. Conduct all cleaning within three days of soiling to facilitate easier removal of excess mortar and construction dirt.

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.



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 Natural Stone Treatment – A modified siloxane water repellent developed for limestone, marble and most other traditional masonry surfaces. Natural Stone Treatment penetrates deeply to provide long-lasting protection without altering the natural appearance of the substrate.

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.

Stand Off® Paver Enhancer – A solvent-based blend of high-quality siloxanes modified to provide excellent water repellency and color enhancement to interlocking concrete, fired clay, porous tile and many types of natural stone surfaces. Penetrates and reacts with the surface to form a chemical bond, provided long-term durability, alkali resistance and superior breathability

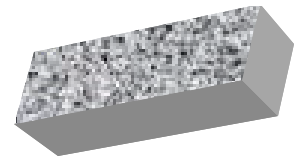
SAMPLE PREPARATION – Protective Water Repellents

The submitted samples were allowed to dry, and reabsorb atmospheric humidity for 24 hours prior to treatment.

Sure Klean® Weather Seal Natural Stone Treatment and Sure Klean® Weather Seal Blok-Guard® & Graffiti Control were applied in a wet-on-wet brush application and Stand Off® Paver Enhancer was applied in a single saturating application. All treatments were allowed to cure at least 72 hours prior to testing.



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TEST METHODS – Protective Water Repellents

Water Absorption Tube Test: RILEM II.4, 5.0 milliliters, 20 minutes

The water absorption tube test simulating wind driven and wind blown rain conditions was also performed. Tests were run with 5.0-milliliter head pressures. Filled to 5 milliliters, a water absorption tube produces a 98 mph dynamic wind pressure. See RILEM II.4 Tech Note for additional information.

The ranking system used to evaluate the effectiveness of the products applied to each submitted sample is as follows:

AA = “Above Average” correlates to less than or equal to 20% of the maximum untreated absorption.

A = “Average” correlates to less than or equal to 50% of the maximum untreated absorption

BA = “Below Average” correlates to greater than 50% of the maximum untreated absorption.

EXAMPLE: If RILEM tubes applied to an untreated sample result in loss of 5 ml of water or more, then:

A rating of **AA** *Above Average* water repellent performance would require loss of no more than 5 ml X 20% = 1 ml.

A rating of **A** *Average* water repellent performance would require loss of no more than 5 ml X 50% = 2.5ml.

A rating of **BA** *Below Average* water-repellent performance would be reported for treatments which result in a loss of more than 50% X 5ml = 2.5ml+.

Test Results – Protective Water Repellents

Water Absorption Tube Test: RILEM II.4, 5.0 milliliters, 20 Minutes

AA = Above Average

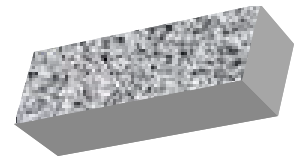
AA = Average

BA = Below Average

“Wisconsin Castle Rock (Gray Buff)”	Results	Ranking
Untreated Control	0.5 mL loss	---
NST	0.0 mL loss	AA
Blok-Guard®	0.0 mL loss	AA
Paver Enhancer	0.0 mL loss	AA
“Wisconsin Castle Rock (Full Color)”	Results	Ranking
Untreated Control	.4 mL loss	---
NST	0.0 mL loss	AA
Blok-Guard®	0.0 mL loss	AA
Paver Enhancer	0.0 mL loss	AA
“Chilton Rustic”	Results	Ranking
Untreated Control	2.9 mL loss	---
NST	0.0 mL loss	AA
Blok-Guard®	0.0 mL loss	AA
Paver Enhancer	0.0 mL loss	AA
“Chilton Country Squire”	Results	Ranking
Untreated Control	0.0 mL loss	---
NST	0.0 mL loss	AA*
Blok-Guard®	0.0 mL loss	AA*
Paver Enhancer	0.0 mL loss	AA*



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Test Results – Protective Water Repellents Continued

“Fond du Lac Castle Rock”	Results	Ranking
Untreated Control	0.0 mL loss	---
NST	0.0 mL loss	<u>AA</u> *
Blok-Guard®	0.0 mL loss	<u>AA</u> *
Paver Enhancer	0.0 mL loss	<u>AA</u> *
“Fond du Lac Rustic”	Results	Ranking
Untreated Control	0.0 mL loss	---
NST	0.0 mL loss	<u>AA</u> *
Blok-Guard®	0.0 mL loss	<u>AA</u> *
Paver Enhancer	0.0 mL loss	<u>AA</u> *
“Fond du Lac Country Squire”	Results	Ranking
Untreated Control	0.0 mL loss	---
NST	0.0 mL loss	<u>AA</u> *
Blok-Guard®	0.0 mL loss	<u>AA</u> *
Paver Enhancer	0.0 mL loss	<u>AA</u> *

* The true improvement in water repellency cannot be accurately determined due to the density of the samples and their low absorption of water.

CONCLUSIONS – Protective Water Repellents

Based upon laboratory evaluations, all of the water repellents tested exhibited above average water repellency on all types of the dolomitic limestone veneer samples. Sure Klean® Weather Seal Blok-Guard® & Graffiti Control and Stand Off® Paver Enhancer also enhanced the natural color of the submitted samples, while Sure Klean® Weather Seal Natural Stone Treatment did not change the appearance of the samples.

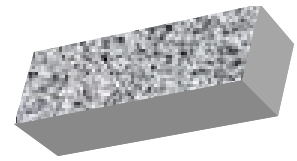
RECOMMENDATIONS – Protective Water Repellents

Based on evaluations, all of the water repellents tested can be recommended for job-site testing to provide water repellency for the dolomitic limestone veneer samples submitted by Buechel Stone Corporation, Chilton, WI. For veneer types “Chilton Country Squire”, “Fond du Lac Castle Rock”, “Fond du Lac Rustic”, and “Fond du Lac Country Squire” immersion testing should be done at a later date when more samples are available. Sure Klean® Weather Seal Blok-Guard® & Graffiti Control and Stand Off® Paver Enhancer can also be recommended for enhancing the natural color of the samples.

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 – PROTECTIVE STAIN REPELLENTS

The testing described below evaluates the suitability of stain protection treatments.

The surface treatments evaluated were selected for their suitability for application based on the following selection criteria:

1. Ease of application
2. Color change
3. Removal of staining substances

DESCRIPTIONS OF PRODUCTS EVALUATED – Protective Stain Repellents

Protective Stain Repellents:

Stand Off[®] Stone, Tile & Masonry Protector – A penetrating oil and stain repellent. This easy-to-use, low-VOC, low-odor protective treatment improves the stain resistance and simplifies maintenance cleaning or interior and exterior stone, quarry tile, concrete and masonry surfaces. Surfaces treated with STMP resist staining from oil, food and waterborne matter while retaining their natural color, texture, and breathability.

Products Evaluated for Stain Removal:

Stand Off[®] All Surface Cleaner – Dilution: 1 part concentrate : 10 parts fresh water

Food and Oil Products Evaluated:

Temperature:

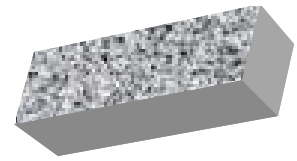
Coca-Cola [®]	~75°F
Red Wine	~75°F
Mustard	~75°F
Coffee	~120°F
Vegetable Oil	~250°F

SAMPLE PREPARATION – Protective Stain Repellents

The submitted samples were cut and allowed to dry, and reabsorb atmospheric humidity for 24 hours prior to treatment. The treatment method consisted of a single saturating application and allowed to cure at least 72 hours prior to testing.



PALLET CARD PROGRAM LABORATORY REPORT



TEST METHODS – Protective Stain Repellents

Oil and Water Surface Beading

The food and oil products were applied to the test areas. The beading properties of the oils and liquids were visually evaluated within two minutes after application. The results are reported as a rating based on the angle of contact between the base of the droplet and the substrate. A rating of “1 or 2” indicates the smallest angle of contact (<90°) which correlates to “above average” repellency. A rating of “3 or 4” indicates “average” repellency. A rating of “5 or greater” indicates that the oil quickly absorbed into the substrate and correlates to “below average” repellency.

Stain Resistance

The soiling agents were allowed to dwell on the treated and untreated substrate for times of 24 hours, 7 hours, 4 hours, and 1 hour. The test areas were then cleaned with Stand Off® All Surface Cleaner diluted 1 part concentrate to 10 parts fresh water and scrubbed under a stream of running water from a faucet. Samples were allowed to dry for 24 hours. Evaluation consisted of a visual examination of the tested areas to determine the percentage of staining removal.

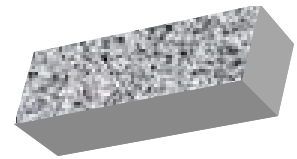
TEST RESULTS – Surface Beading

“Wisconsin Castle Rock (Gray Buff)”				
Coca-Cola®	Red Wine	Mustard	Coffee	Vegetable Oil
Untreated Control				
5	5	N/A	5	5
STMP				
3	3	N/A	3	3
“Wisconsin Castle Rock (Full Color)”				
Coca-Cola®	Red Wine	Mustard	Coffee	Vegetable Oil
Untreated Control				
5	5	N/A	5	5
STMP				
3	3	N/A	3	3
“Chilton Rustic”				
Coca-Cola®	Red Wine	Mustard	Coffee	Vegetable Oil
Untreated Control				
5	5	N/A	5	5
STMP				
3	3	N/A	3	3

Rating System: 1 & 2 Above Average
 3 & 4 Average
 5 Below Average
 N/A Not a free flowing liquid



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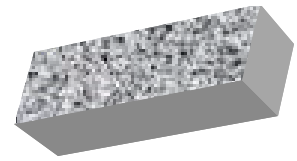
TEST RESULTS – Surface Beading Continued

“Chilton Country Squire”				
Coca-Cola®	Red Wine	Mustard	Coffee	Vegetable Oil
Untreated Control				
5	5	N/A	5	5
STMP				
3	3	N/A	3	3
“Fond du Lac Castle Rock”				
Coca-Cola®	Red Wine	Mustard	Coffee	Vegetable Oil
Untreated Control				
5	5	N/A	5	5
STMP				
3	3	N/A	3	3
“Fond du Lac Rustic”				
Coca-Cola®	Red Wine	Mustard	Coffee	Vegetable Oil
Untreated Control				
5	5	N/A	5	5
STMP				
3	3	N/A	3	3
“Fond du Lac Country Squire”				
Coca-Cola®	Red Wine	Mustard	Coffee	Vegetable Oil
Untreated Control				
5	5	N/A	5	5
STMP				
3	3	N/A	3	3

Rating System: 1 & 2 Above Average
 3 & 4 Average
 5 Below Average
 N/A Not a free flowing liquid



PALLET CARD PROGRAM LABORATORY REPORT



TEST RESULTS – Protective Stain Repellents

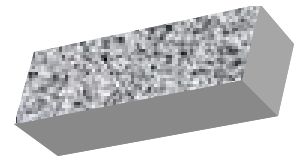
“Wisconsin Castle Rock (Gray Buff)”					
	Coca-Cola®	Red Wine	Mustard	Coffee	Vegetable Oil
Untreated Control					
24hr	100%	100%	100%	90%	10%
7hr	100%	100%	100%	90%	10%
4hr	100%	100%	100%	90%	10%
1hr	100%	100%	100%	90%	10%
STMP					
24hr	100%	100%	100%	100%	100%
7hr	100%	100%	100%	100%	100%
4hr	100%	100%	100%	100%	100%
1hr	100%	100%	100%	100%	100%
“Wisconsin Castle Rock (Full Color)”					
	Coca-Cola®	Red Wine	Mustard	Coffee	Vegetable Oil
Untreated Control					
24hr	100%	100%	90%	90%	10%
7hr	100%	100%	90%	90%	10%
4hr	100%	100%	90%	90%	10%
1hr	100%	100%	90%	90%	10%
STMP					
24hr	100%	100%*	100%	100%	100%
7hr	100%	100%*	100%	100%	100%
4hr	100%	100%	100%	100%	100%
1hr	100%	100%	100%	100%	100%
“Chilton Rustic”					
	Coca-Cola®	Red Wine	Mustard	Coffee	Vegetable Oil
Untreated Control					
24hr	100%	100%	100%	90%	10%
7hr	100%	100%	100%	90%	10%
4hr	100%	100%	100%	90%	10%
1hr	100%	100%	100%	90%	10%
STMP					
24hr	100%	100%*	100%	100%	100%
7hr	100%	100%*	100%	100%	100%
4hr	100%	100%*	100%	100%	100%
1hr	100%	100%	100%	100%	100%

% Removal of stain following maintenance cleaning.

* Indicates etching of surface treatment due to the acidic nature of the staining agent.



PALLET CARD PROGRAM LABORATORY REPORT



TEST RESULTS – Protective Stain Repellents Continued

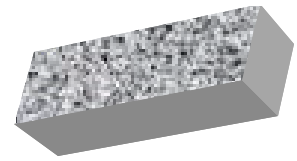
“Chilton Country Squire”					
	Coca-Cola®	Red Wine	Mustard	Coffee	Vegetable Oil
Untreated Control					
24hr	100%	100%	100%	90%	10%
7hr	100%	100%	100%	90%	10%
4hr	100%	100%	100%	90%	10%
1hr	100%	100%	100%	90%	10%
STMP					
24hr	100%	100%*	100%	100%	100%
7hr	100%	100%*	100%	100%	100%
4hr	100%	100%*	100%	100%	100%
1hr	100%	100%	100%	100%	100%
“Fond du Lac Castle Rock”					
	Coca-Cola®	Red Wine	Mustard	Coffee	Vegetable Oil
Untreated Control					
24hr	100%	100%	100%	90%	90%
7hr	100%	100%	100%	90%	90%
4hr	100%	100%	100%	90%	90%
1hr	100%	100%	100%	90%	90%
STMP					
24hr	100%	100%*	100%	100%	100%
7hr	100%	100%*	100%	100%	100%
4hr	100%	100%*	100%	100%	100%
1hr	100%	100%*	100%	100%	100%
“Fond du Lac Rustic”					
	Coca-Cola®	Red Wine	Mustard	Coffee	Vegetable Oil
Untreated Control					
24hr	100%	100%	100%	90%	10%
7hr	100%	100%	100%	90%	10%
4hr	100%	100%	100%	90%	10%
1hr	100%	100%	100%	90%	10%
STMP					
24hr	100%	100%*	100%	100%	100%
7hr	100%	100%*	100%	100%	100%
4hr	100%	100%*	100%	100%	100%
1hr	100%	100%	100%	100%	100%

% Removal of stain following maintenance cleaning.

* Indicates etching of surface treatment due to the acidic nature of the staining agent.



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TEST RESULTS – Protective Stain Repellents Continued

“Fond du Lac Country Squire”					
	Coca-Cola®	Red Wine	Mustard	Coffee	Vegetable Oil
Untreated Control					
24hr	100%	100%	100%	90%	10%
7hr	100%	100%	100%	90%	10%
4hr	100%	100%	100%	90%	10%
1hr	100%	100%	100%	90%	10%
STMP					
24hr	100%	100%*	100%	100%	100%
7hr	100%	100%*	100%	100%	100%
4hr	100%	100%*	100%	100%	100%
1hr	100%	100%	100%	100%	100%

% Removal of stain following maintenance cleaning.

* Indicates etching of surface treatment due to the acidic nature of the staining agent.

CONCLUSIONS:

In tests conducted on the submitted samples, Stand Off® Stone, Tile, & Masonry Protector provided excellent stain repellency. Most of the treated samples were slightly etched by the red wine.

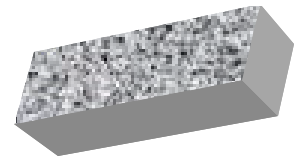
RECOMMENDATIONS:

Based on test results, Stand Off® Stone, Tile, & Masonry Protector can be recommended for job-site testing for stain repellency on the dolomitic limestone veneer samples submitted by Buechel Stone Corporation, Chilton, WI.

Refer to product data sheets for further information regarding application instructions.



PALLET CARD PROGRAM LABORATORY REPORT



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SECTION E – 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.

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.

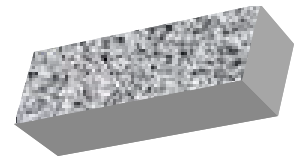
Sure Klean® Fast Acting Stripper – A thixotropic stripping compound designed for removing coatings and epoxies from masonry, wood and metal surfaces. It also removes oil, grease and waxes from concrete decks, tile and terrazzo floors. Fast Acting Stripper dissolves most spray paints, marking pens, lacquers and other graffiti.

Graffiti Agents:

Krylon® Interior/Exterior Paint (2101 Cherry Red)
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)



PALLET CARD PROGRAM LABORATORY REPORT



SAMPLE PREPARATION – Graffiti Control

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

Sections of the dolomitic limestone veneer samples 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. 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. Removal of the graffiti agents was attempted 24 hours after application of the graffiti agents, using Defacer Eraser® Graffiti Wipe and Sure Klean® Fast Acting Stripper.

TEST METHOD – Graffiti Control

Chemical cleaners were evaluated using the following procedure:

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

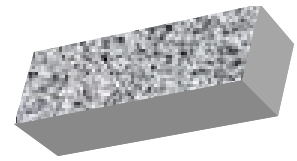
* Pressure rinsing was conducted at approximately 1300 psi with a warm water flow rate of 1.9 gallons per minute.

TEST RESULTS – Graffiti Control

“Wisconsin Castle Rock (Gray Buff)”						
Untreated Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	75%	95%	57%	57%	57%	68.2%
Fast Acting Stripper	73%	99%	63%	73%	73%	76.2%
Blok-Guard® & Graffiti Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	99%	99%	93%	93%	93%	95.4%
Fast Acting Stripper	99%	99%	95%	95%	95%	96.6%



PALLET CARD PROGRAM LABORATORY REPORT



PROSOCO, Inc.

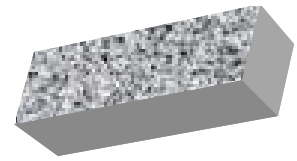
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TEST RESULTS – Graffiti Control Continued

“Wisconsin Castle Rock (Full Color)”						
Untreated Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	98%	99%	80%	80%	80%	87.4%
Fast Acting Stripper	98%	99%	95%	95%	95%	96.4%
Blok-Guard® & Graffiti Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	99%	99%	99%	99%	99%	99.0%
Fast Acting Stripper	99%	99%	99%	99%	99%	99.0%
“Chilton Rustic”						
Untreated Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	99%	98%	80%	80%	80%	87.4%
Fast Acting Stripper	95%	99%	95%	95%	95%	95.8%
Blok-Guard® & Graffiti Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	99%	99%	99%	99%	99%	99.0%
Fast Acting Stripper	99%	99%	99%	99%	99%	99.0%
“Chilton Country Squire”						
Untreated Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	97%	99%	70%	70%	70%	81.2%
Fast Acting Stripper	95%	99%	90%	95%	95%	94.8%
Blok-Guard® & Graffiti Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	99%	99%	99%	98%	98%	98.6%
Fast Acting Stripper	99%	99%	99%	99%	99%	99.0%
“Fond du Lac Castle Rock”						
Untreated Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	98%	98%	80%	80%	80%	87.2%
Fast Acting Stripper	95%	99%	95%	95%	95%	95.8%
Blok-Guard® & Graffiti Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	98%	99%	99%	99%	99%	98.8%
Fast Acting Stripper	98%	99%	99%	99%	99%	98.8%



PALLET CARD PROGRAM LABORATORY REPORT



TEST RESULTS – Graffiti Control Continued

“Fond du Lac Rustic”						
Untreated Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	70%	70%	10%	10%	10%	34.0%
Fast Acting Stripper	95%	95%	50%	50%	50%	68.0%
Blok-Guard® & Graffiti Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	98%	98%	70%	70%	70%	81.2%
Fast Acting Stripper	97%	98%	95%	95%	95%	96.0%
“Fond du Lac Country Squire”						
Untreated Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	97%	98%	70%	70%	70%	81.0%
Fast Acting Stripper	97%	98%	70%	70%	70%	81.0%
Blok-Guard® & Graffiti Control	Red Paint	Black Paint	Green Marker	Red Marker	Black Marker	Avg. Removal
Graffiti Wipe	99%	99%	99%	99%	99%	99.0%
Fast Acting Stripper	99%	99%	99%	99%	99%	99.0%

CONCLUSIONS – Graffiti Control

Based upon laboratory evaluations, Defacer Eraser® Graffiti Wipe and Sure Klean® Fast Acting Stripper effectively removed graffiti from most of the submitted samples. Removal was improved when the surfaces were 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 substrate.

NOTE: See Attachment #1 “PHOTO B”.

RECOMMENDATIONS – Graffiti Control

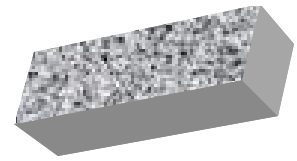
Based on evaluations, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control is recommended for graffiti protection on all dolomitic limestone veneer samples.

Defacer Eraser® Graffiti Wipe and Sure Klean® Fast Acting Stripper can be recommended for removal of graffiti in conjunction with the recommended graffiti protection treatment on all submitted samples from Buechel Stone Corporation, Chilton, WI.

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.



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SECTION F – COLOR ENHANCEMENT

The testing described below evaluates the degree of color enhancement that the treatments provide to the samples.

The surface treatments evaluated were selected for their suitability for application based on the following selection criteria:

1. Ease of application
2. Color change
3. Removal of staining substances

DESCRIPTIONS OF PRODUCT EVALUATED – Color Enhancement

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.

Stand Off® Paver Enhancer – A solvent-based blend of high-quality siloxanes modified to provide excellent water repellency and color enhancement to interlocking concrete, fired clay, porous tile and many types of natural stone surfaces. Penetrates and reacts with the surface to form a chemical bond, provided long-term durability, alkali resistance and superior breathability.

SAMPLE PREPARATION – Color Enhancement

The submitted samples were allowed to dry, and reabsorb atmospheric humidity for 24 hours prior to treatment. Method of treatment consisted of a wet-on-wet brush application for Sure Klean® Weather Seal Blok-Guard® & Graffiti Control and one saturating application for Stand Off® Paver Enhancer. All treatments were allowed to cure at least 72 hours prior to testing.

TEST METHODS – Color Enhancement

Color enhancement is evaluated visually based on the appearance of the treatment applied. This includes color changes and/or darkening.

For purpose of this evaluation, treatments that produce “no enhancement” do not alter the natural appearance of the substrate and are rated with a value of 1. Untreated substrates are rated a value of 0.

Treatments that provide the same degree of darkening as water-saturated examples of the substrate are rated with a value of 5.

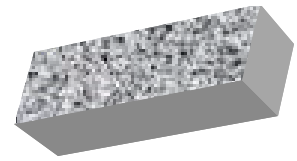
A value of 2 is estimated to be 25% of the water-saturated degree of darkening.

A value of 3 is estimated to be 50% of the water-saturated degree of darkening.

A value of 4 is estimated to be 75% of the water-saturated degree of darkening.



PALLET CARD PROGRAM LABORATORY REPORT



Test Results – Color Enhancement

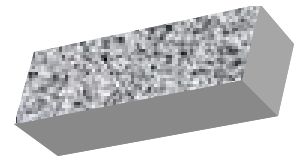
“Wisconsin Castle Rock (Gray Buff)”	
Treatment	Enhancement
Untreated Control	0
Blok-Guard® & Graffiti Control	4
Paver Enhancer	3
“Wisconsin Castle Rock (Full Color)”	
Treatment	Enhancement
Untreated Control	0
Blok-Guard® & Graffiti Control	4
Paver Enhancer	3
“Chilton Rustic”	
Treatment	Enhancement
Untreated Control	0
Blok-Guard® & Graffiti Control	2
Paver Enhancer	2
“Chilton Country Squire”	
Treatment	Enhancement
Untreated Control	0
Blok-Guard® & Graffiti Control	4
Paver Enhancer	4
“Fond du Lac Castle Rock”	
Treatment	Enhancement
Untreated Control	0
Blok-Guard® & Graffiti Control	4
Paver Enhancer	4
“Fond du Lac Rustic”	
Treatment	Enhancement
Untreated Control	0
Blok-Guard® & Graffiti Control	2
Paver Enhancer	2
“Fond du Lac Country Squire”	
Treatment	Enhancement
Untreated Control	0
Blok-Guard® & Graffiti Control	4
Paver Enhancer	2

Scale used for reporting results:

- | | |
|-----------------------|--------------------|
| 0 – Untreated Control | 3 – 50% Darkening |
| 1 – No Enhancement | 4 – 75% Darkening |
| 2 – 25% Darkening | 5 – 100% Darkening |



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CONCLUSIONS – Color Enhancement

Based upon laboratory evaluations, Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control was most effective at providing color enhancement. Stand Off[®] Paver Enhancer also enhanced the color of the dolomitic limestone veneer samples, but to a much lesser degree than the Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control.

NOTE: See Attachment #2 “PHOTO C”.

RECOMMENDATIONS – COLOR ENHANCEMENT

Based on evaluations, Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control and Stand Off[®] Paver Enhancer can be recommended for job-site testing to provide color enhancement to the samples submitted by Buechel Stone Corporation, Chilton, WI.

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 color enhancing 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 – “Chilton Rustic” after cleaning.

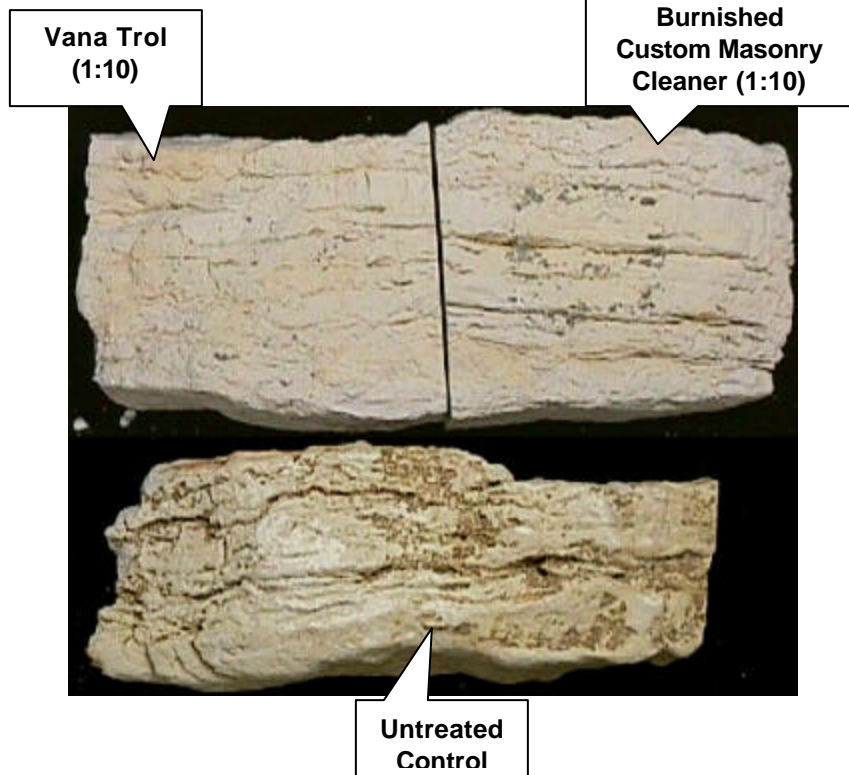
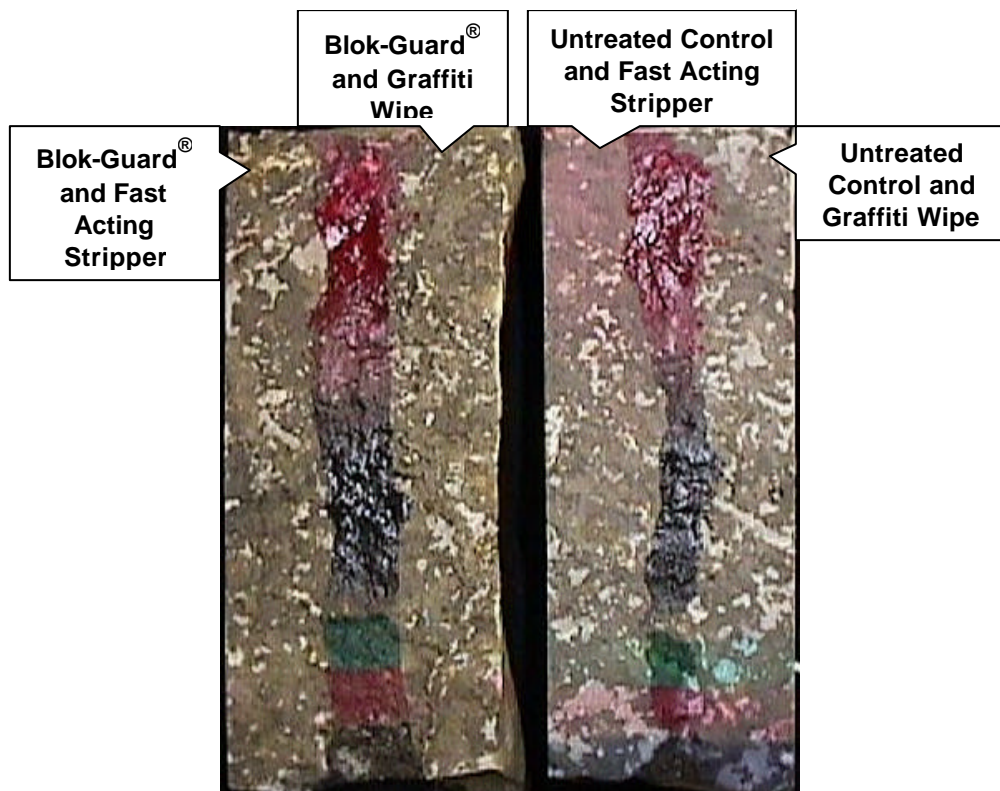


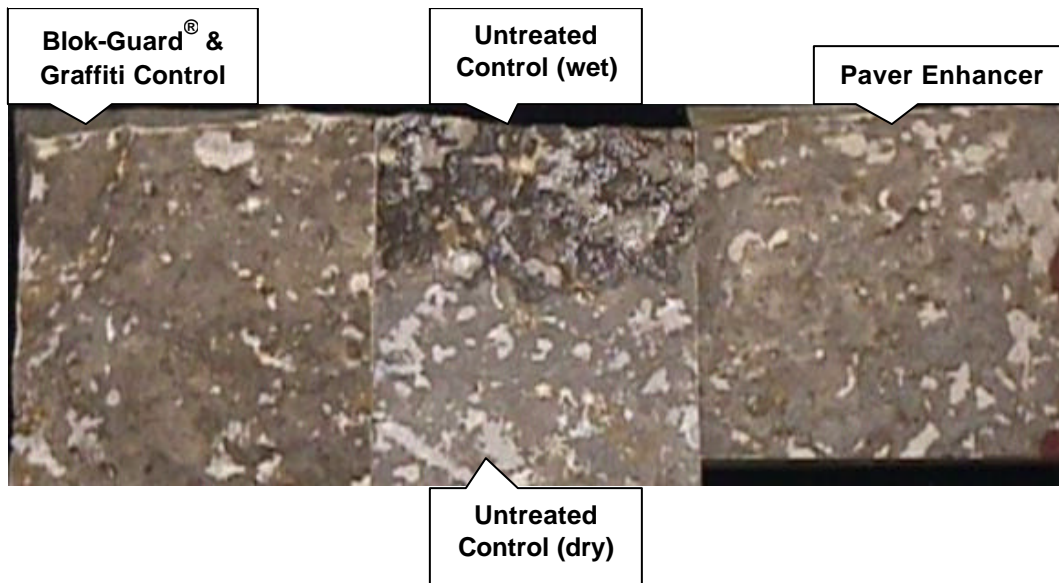
PHOTO B – “Wisconsin Castle Rock (Gray)” graffiti control.

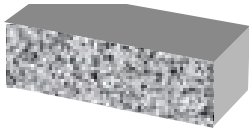




Attachment #2

PHOTO C – “Wisconsin Castle Rock (Gray)” color enhancement.





Laboratory Report

Pallet Card Evaluation

**Buechel Stone Corporation
Chilton, WI**

Project No. 0109-20 PC

Prepared For

Mike Buechel
Buechel Stone Corp.
W3639 Hwy H
Chilton, WI 53014

Prepared By:



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