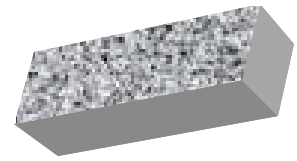




PALLET CARD PROGRAM LABORATORY REPORT



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

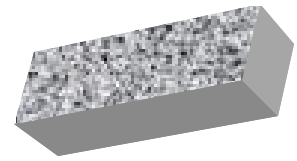
STAIN REPELLENT PRODUCTS EVALUATED

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

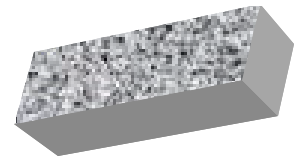
SAMPLE	PRODUCT
All types of dolomitic limestone veneer	Defacer Eraser® Graffiti Wipe
	Sure Klean® Fast Acting Stripper

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

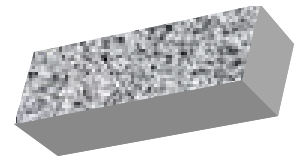
1. Pre-wet the surface with water.
2. Apply the cleaner.
3. Allow the appropriate dwell time, as specified.

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”

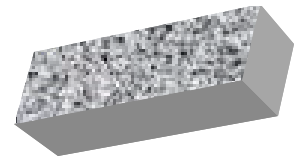
	<u>3 day</u>	<u>7 day</u>	<u>14 day</u>
Vana Trol® (1:10)	100%	100%	100%
Burnished Custom Masonry Cleaner (1:3)	99%	98%	98%

“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.

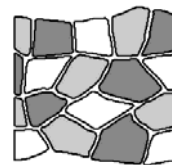
RECOMMENDED PRODUCTS AND DILUTIONS – Cleaning

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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Purpose of Testing

Seven types of dolomitic limestone were submitted to PROSOCO, Inc.'s Testing Laboratory with a request to determine the optimum dilution of the new construction cleaning products evaluated for complete removal of laboratory applied mortar while limiting any surface alterations. Additionally, the effectiveness of water repellents, graffiti control products and color and sheen enhancing treatments suitable for limestone were evaluated.

New Construction Cleaning – Sure Klean® Vana Trol® and Sure Klean® Burnished Custom Masonry Cleaner were evaluated for removal of laboratory applied mortar. The surface alteration evaluation was visually determined based upon perceived discoloration or erosion/etching of the samples.

To simulate new construction soiling, the samples were placed on a bench with finished surface facing upward. Hollow cylinders measuring 50 mm in diameter and 75 mm tall were positioned on top of the samples and filled with a wet mixture of Type S cementitious mortar. The wet mortar-filled cylinder was allowed to remain in contact with the samples for 10 minutes before removal.

Heavy deposits of mortar were removed with dry scraping after 24 hours. Prepared cleaning solutions were then evaluated for their effectiveness in removing residual Type S mortar after 3, 7, and 14 days of curing. A visual examination was also made to determine if the tested cleaners caused any surface alterations to the submitted samples based on the following:

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.

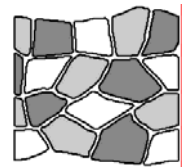
Protective Water Repellents – Sure Klean® Paver Enhancer, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control, Sure Klean® Weather Seal Natural Stone Treatment, Sure Klean® Weather Seal Natural Stone Treatment WB, and Stand Off® Limestone & Marble Protector were evaluated for their ability to provide water repellency on the submitted samples.

Graffiti Control – Sure Klean® Weather Seal Blok-Guard® & Graffiti Control and Defacer Eraser® Graffiti Barrier S were evaluated for their ability to repel graffiti from the submitted samples. Sure Klean® Fast Acting Stripper and Defacer Eraser® Graffiti Wipe were evaluated for their ability to remove graffiti from the submitted samples.

Color and Sheen Enhancement – Sure Klean® Paver Enhancer, Stand Off® Gloss 'N Guard, and Stand Off® Gloss 'N Guard WB were evaluated for their ability to provide color and sheen enhancement to the submitted samples.



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Products Evaluated

New Construction Cleaning Products Evaluated

Sample	Treatment	Dilution
All Submitted Samples	Sure Klean® Vana Trol®	1:6, 1:8
	Sure Klean® Burnished Custom Masonry Cleaner	1:2, 1:3

Protective Water Repellent Products Evaluated

Sample	Treatment	Dilution
All Submitted Samples	Sure Klean® Paver Enhancer	Concentrate
	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	Concentrate
	Sure Klean® Weather Seal Natural Stone Treatment	Concentrate
	Sure Klean® Weather Seal Natural Stone Treatment WB	Concentrate
	Stand Off® Limestone & Marble Protector	Concentrate

Graffiti Repellent Products Evaluated

Sample	Product	Dilution
All Submitted Samples	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	Concentrate
	Defacer Eraser® Graffiti Barrier S	Concentrate

Graffiti Removal Products Evaluated

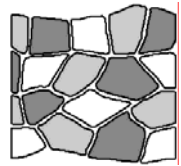
Sample	Product	Dilution
All Submitted Samples	Sure Klean® Fast Acting Stripper	Concentrate
	Defacer Eraser® Graffiti Wipe	Concentrate

Color and Sheen Enhancement Products Evaluated

Sample	Treatment	Dilution
All Submitted Samples	Sure Klean® Paver Enhancer	Concentrate
	Stand Off® Gloss 'N Guard	Concentrate
	Stand Off® Gloss 'N Guard WB	Concentrate



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New Construction Cleaning

These cleaning trials were conducted to determine the optimal cleaning/cure time combination to most efficiently remove Type S mortar from the submitted samples while limiting surface alterations.

Type S cementitious mortar was prepared in compliance with the manufacturer's instructions, applied to the natural stone surface and allowed to cure for 3, 7 and 14 days. Mortar removal was accomplished using chemical assistance and a high-pressure water rinse with pressure rinsing equipment. The removal of Type S mortar was visually evaluated after 3, 7 and 14 days of curing.

Description of Products Evaluated – New Construction Cleaning

Sure Klean® Vana Trol® – A concentrated acidic cleaner for new masonry surfaces that are subject to vanadium, manganese and other metallic stains. Use on: gray, brown, white, and most light-colored brick; natural stone; cast stone. Dissolves mortar smears and construction dirt quickly, leaving the masonry clean and uniform with no acid burning or streaking. Liquid concentrate for dilution with 4-10 parts water. Apply by brush or low-pressure spray.

Sure Klean® Burnished Custom Masonry Cleaner – Removes common construction and atmospheric staining from custom masonry and other architectural concrete surfaces. This general-purpose, non-etching, acidic cleaner removes rust, mud, oil, atmospheric dirt, mortar smears and other stains without altering the surface texture. Burnished Custom Masonry Cleaner adds depth to colors and brightens white matrices and exposed aggregate.

Test Method – New Construction Cleaning

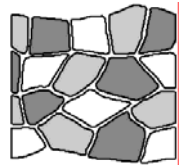
Dilution ratios refer to mixtures of concentrated cleaner : fresh water. Chemical cleaners were evaluated using the following procedure:

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

***Pressure Rinsing Equipment** – Masonry washing equipment generating approximately 700-800 psi with a water flow rate of 8 gallons per minute delivered through a 45 degree fan spray tip was used for rinsing.



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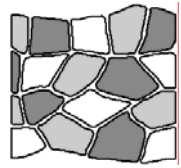
Test Results – New Construction Cleaning

% removal

“Frontier Gray”				
Product	Dilution	3 day	7 day	14 day
Sure Klean® Vana Trol®	1:6	100%	100%	100%
	1:8	100%	100%	100%
Sure Klean® Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
	1:3	100%	100%	100%
“Millcreek – Rock-face”				
Product	Dilution	3 day	7 day	14 day
Sure Klean® Vana Trol®	1:6	100%	100%	100%
	1:8	100%	100%	100%
Sure Klean® Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
	1:3	100%	100%	100%
“Sandcastle Dark”				
Product	Dilution	3 day	7 day	14 day
Sure Klean® Vana Trol®	1:6	100%	100%	100%
	1:8	100%	100%	100%
Sure Klean® Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
	1:3	100%	100%	100%
“Sandcastle Light”				
Product	Dilution	3 day	7 day	14 day
Sure Klean® Vana Trol®	1:6	100%	100%	100%
	1:8	100%	100%	100%
Sure Klean® Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
	1:3	100%	100%	100%
“Silverdale”				
Product	Dilution	3 day	7 day	14 day
Sure Klean® Vana Trol®	1:6	100%	100%	100%
	1:8	100%	100%	100%
Sure Klean® Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
	1:3	100%	100%	100%
“Texas Cream”				
Product	Dilution	3 day	7 day	14 day
Sure Klean® Vana Trol®	1:6	100%	100%	100%
	1:8	100%	100%	100%
Sure Klean® Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
	1:3	100%	100%	100%
“Thermal New York Bluestone”				
Product	Dilution	3 day	7 day	14 day
Sure Klean® Vana Trol®	1:6	100%	100%	100%
	1:8	100%	100%	100%
Sure Klean® Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
	1:3	100%	100%	100%



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Test Results – Limiting Surface Alterations

Substrate: Limestone		Pigment Color: "Thermal New York Bluestone"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean® Vana Trol®	1:6	0	0	0	0
	1:8	0	0	0	0
Sure Klean® Burnished Custom Masonry Cleaner	1:2	0	0	0	0
	1:3	0	0	0	0

0 – No change

1 – change – slight

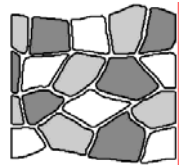
2 – change – moderate

3 – change – heavy

4 – change - excessive



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Photographs – New Construction Cleaning

“Millcreek – Rock-face”; 3 Day Cleaning



Sure Klean®
Vana Trol® 1:6

Sure Klean®
Vana Trol® 1:8

Sure Klean®
Burnished Custom
Masonry Cleaner 1:2

Sure Klean®
Burnished Custom
Masonry Cleaner 1:3

Untreated Control

“Millcreek – Rock-face”; 7 Day Cleaning



Sure Klean®
Vana Trol® 1:6

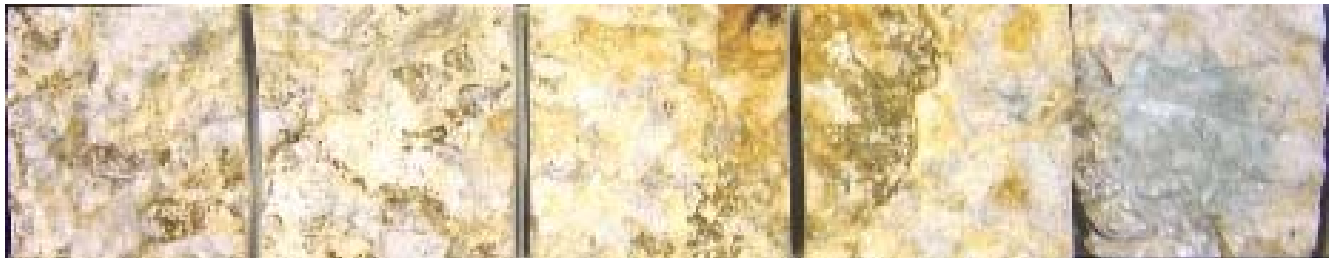
Sure Klean® Vana
Trol® 1:8

Sure Klean®
Burnished Custom
Masonry Cleaner 1:2

Sure Klean®
Burnished Custom
Masonry Cleaner 1:3

Untreated Control

“Millcreek – Rock-face”; 14 Day Cleaning



Sure Klean®
Vana Trol® 1:6

Sure Klean®
Vana Trol® 1:8

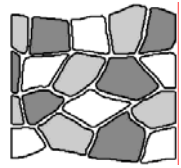
Sure Klean®
Burnished Custom
Masonry Cleaner 1:2

Sure Klean®
Burnished Custom
Masonry Cleaner 1:3

Untreated Control



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Photographs – Limiting Surface Alterations

“Millcreek – Rock-face”; Limiting Surface Alterations



**Sure Klean[®]
Vana Trol[®] 1:6**

**Sure Klean[®] Vana
Trol[®] 1:8**

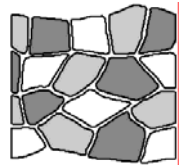
**Sure Klean[®]
Burnished Custom
Masonry Cleaner 1:2**

**Sure Klean[®]
Burnished Custom
Masonry Cleaner 1:3**

Untreated Control



PALLET TAG PROGRAM LABORATORY REPORT



Conclusions – New Construction Cleaning

Based on the test results, both Sure Klean® Vana Troi® and Sure Klean® Burnished Custom Masonry Cleaner performed well in removing excess mortar from the submitted samples. These products performed well in removing the mortar soils even after allowing the mortar to remain on the surface of the samples for 14 days using Type S mortar under ideal curing conditions.

It is recommended that the selected cleaners always be used in the lowest possible concentration. To facilitate easier removal of excess mortar and construction dirt while minimizing any potential surface alterations to the decorative finish, clean within 3 days of construction when using Type S mortar.

Recommendations – New Construction Cleaning

Recommendations for cleaning for the dolomitic limestone submitted by Buechel Stone Corporation, Inc., Chilton, WI are provided in the chart below. Recommendations are based on the optimum dilution for complete removal of mortar while limiting surface alterations.

Sample	New Construction Cleaning (Type S mortar, 14 day cleaning)
All Submitted Samples	Sure Klean® Vana Troi® (1:8) OR Sure Klean® Burnished Custom Masonry Cleaner (1:3)

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