



PALLET TAG PROGRAM LABORATORY REPORT



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ATTACHMENTS

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



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FOR: Steve Hawkins
cc: John Bourne

SUBJECT: Cold Spring Granite
Cold Spring, MN

DATE: March 24, 2004

PROJECT: 0403-06 PTP

SAMPLES SUBMITTED:

Sample	Number	Type	Finish	Color	Size
(4) Granite	A-1	"Carnelian"	Polish	Dark gray	12" x 12" x 1"
(4) Granite	A-2	"Carnelian"	Polish & Vantage	Dark gray	
(4) Granite	A-3	"Carnelian"	Hone	Dark gray	
(4) Granite	A-4	"Carnelian"	Flamed	Pink/ gray	
(4) Granite	A-5	"Carnelian"	Sanded	Pink/ gray	
(4) Granite	A-6	"Mesabi Black"	Polish	Black	
(4) Granite	A-7	"Mesabi Black"	Polish & Vantage	Black	
(4) Granite	A-8	"Mesabi Black"	Hone	Black	
(4) Granite	A-9	"Mesabi Black"	Flamed	Gray	
(4) Granite	A-10	"Mesabi Black"	Sanded	Dark gray	
(4) Granite	A-11	"Rainbow"	Polish	Pink/ gray	
(4) Granite	A-12	"Rainbow"	Polish & Vantage	Pink/ gray	
(4) Granite	A-13	"Rainbow"	Hone	Pink/ gray	
(4) Granite	A-14	"Rainbow"	Flamed	Pink/ gray	
(4) Granite	A-15	"Ranbow"	Sanded	Gray/ pink	
(4) Granite	A-16	"Sierra White"	Polish	White/ gray	
(4) Granite	A-17	"Sierra White"	Flamed	White	
(4) Granite	A-18	"Academy Black"	Polish	Gray	
(4) Granite	A-19	"Academy Black"	Flamed	Gray	
(4) Granite	A-20	"Sunset Red"	Polish	Light red	
(4) Granite	A-21	"Sunset Red"	Flamed	Gray/ pink	
(4) Granite	A-22	"Rockville Beige"	Polish	White/ gray	
(4) Granite	A-23	"Rockville Beige"	Flamed	Brown	

Submitted by: Steve Hawkins



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PURPOSE OF TESTING:

Twenty-three types of granite samples were submitted to PROSOCO, Inc.'s Testing Laboratory with a request to determine if application of the products evaluated would produce any surface alteration during new construction cleaning operations. Additionally, the effectiveness of water repellents and stain repellents, suitable for granite substrates, were evaluated.

A. New Construction Cleaning – Enviro Klean[®] Safety Klean and Sure Klean[®] Vana Trol[®] were evaluated at various dilutions for removal of laboratory applied mortar.

To simulate new construction soiling, all tiles 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 tile and filled with a wet mixture of either Pro-Lastic[®] Polymer Admixture, Marble & Granite Fortified Premium Mortar, or Plaster of Paris. The wet, mortar-filled cylinder is allowed to remain in contact with the tile for 10 minutes before removal.

Prepared cleaning solutions are then evaluated for their effectiveness in removing residual mortar staining after 3 days of curing.

B. Limiting Surface Alterations Testing – Enviro Klean[®] Safety Klean and Sure Klean[®] Vana Trol[®] were evaluated at various dilutions to determine if a cleaning program implemented to remove excess mortar and related new construction soiling would otherwise alter the appearance of cleaned surfaces. Surface Alteration was evaluated visually based upon perceived discoloration or erosion/etching of the masonry unit.

Aggregate Exposure is the visual examination of the tile comparing aggregate exposure of the untreated control surface to surfaces cleaned with selected product(s) at given dilutions.

Surface Pigment Alteration/Removal is the visual examination of the tile comparing the surface pigmentation of the untreated control to surfaces cleaned with selected product(s) at given dilutions.

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

The following is the scale used for reporting results of all categories:

0 – no change	3 – heavy
1 – slight	4 – excessive
2 – moderate	

C. Water Repellent Evaluation – Stand Off[®] SLX100 Water & Oil Repellent and Sure Klean[®] Weather Seal SL100 Water Repellent were evaluated on the submitted samples for their ability to provide water repellency to the submitted samples.

D. Stain Resistance – Stand Off[®] Stone, Tile & Masonry Protector, Stand Off[®] SLX100 Water & Oil Repellent, and Stand Off[®] Impregnator were evaluated for their ability to resist staining agents applied to the submitted samples. Enviro Klean[®] 2010 All Surface Cleaner diluted with 10 parts fresh water was evaluated for its ability to remove the staining agents from the samples.

E. Color Enhancement – Sure Klean[®] Paver Enhancer was evaluated for its ability to enhance the color of the submitted samples.



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PRODUCTS EVALUATED

CLEANING AND LIMITING SURFACE ALTERATIONS PRODUCTS EVALUATED

SAMPLE	PRODUCT	DILUTION
All submitted samples	Enviro Klean® Safety Klean	1:2, 1:3
	Sure Klean® Vana Trol®	1:6, 1:8

WATER REPELLENT PRODUCTS EVALUATED

SAMPLE	TREATMENT	DILUTION
All submitted samples	Sure Klean® Weather Seal SL100 Water Repellent	Concentrate
	Stand Off® SLX100 Water & Oil Repellent	Concentrate

STAIN REPELLENCY PRODUCTS EVALUATED

Block Type	Product
All submitted samples	Stand Off® Stone, Tile & Masonry Protector
	Stand Off® SLX100 Water & Oil Repellent
	Stand Off® Impregnator

COLOR ENHANCEMENT PRODUCTS EVALUATED

SAMPLE	TREATMENT	DILUTION
All submitted samples without a polished finish	Sure Klean® Paver Enhancer	Concentrate

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



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SECTION A – NEW CONSTRUCTION CLEANING

DESCRIPTION OF PRODUCTS EVALUATED – New Construction Cleaning

These cleaning trials were conducted to determine the optimal cleaner and dilution to most efficiently remove Pro-Lastic® Polymer Admixture, Marble & Granite Fortified Premium Mortar, and Plaster of Paris from the submitted granite.

Pro-Lastic® Polymer Admixture, Marble & Granite Fortified Premium Mortar, and Plaster of Paris were prepared in compliance with the manufacturers instructions, applied to the granite and allowed to cure for 3 days prior to removal with high pressure water rinse using pressure rinsing equipment and chemical assist. The removal of the various soils after 3 days of curing was visually evaluated.

Enviro Klean® Safety Klean – An effective, safe alternative to acidic compounds for cleaning brick, tile, and concrete surfaces. Safety Klean rids new masonry construction of excess mortar, dirt, and other common job site soiling. It’s ideal for projects where traditional acidic cleaners are not allowed. Non-fuming Safety Klean contains no hydrochloric or other traditional inorganic acids and is safe for use on and around metal surfaces. Liquid concentrate for dilution with up to three parts fresh water. Apply by brush, roller, or low-pressure spray.

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 4-25 parts water. Apply by brush or low-pressure spray.

TEST METHOD – New Construction Cleaning

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

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

Safety Klean	3 minutes
Vana Trol®	3 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 – New Construction Cleaning

% Removal

“A-1” Polished Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	100%	100%	95%
Safety Klean (1:3)	100%	100%	100%
Vana Trol® (1:6)	100%	100%	100%
Vana Trol® (1:8)	95%	100%	100%

“A-2” Polished & Vantage Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	60%	100%	100%
Safety Klean (1:3)	95%	100%	100%
Vana Trol® (1:6)	95%	100%	100%
Vana Trol® (1:8)	60%	100%	100%

“A-3” Honed Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	95%	95%	100%
Safety Klean (1:3)	95%	95%	100%
Vana Trol® (1:6)	95%	95%	100%
Vana Trol® (1:8)	95%	95%	100%

“A-4” Flamed Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	90%	95%	95%
Safety Klean (1:3)	90%	95%	85%
Vana Trol® (1:6)	90%	95%	95%
Vana Trol® (1:8)	90%	95%	95%

“A-5” Sanded Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	70%	85%	85%
Safety Klean (1:3)	65%	80%	85%
Vana Trol® (1:6)	75%	90%	95%
Vana Trol® (1:8)	75%	85%	95%



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TEST RESULTS – New Construction Cleaning (continued)

% Removal

“A-6” Polished Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	100%	100%	100%
Safety Klean (1:3)	90%	100%	100%
Vana Trol® (1:6)	100%	100%	100%
Vana Trol® (1:8)	90%	100%	100%

“A-7” Polished & Vantage Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	95%	100%	100%
Safety Klean (1:3)	95%	100%	100%
Vana Trol® (1:8)	100%	100%	100%
Vana Trol® (1:10)	100%	100%	100%

“A-8” Honed Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	90%	98%	100%
Safety Klean (1:3)	90%	98%	100%
Vana Trol® (1:6)	95%	98%	100%
Vana Trol® (1:8)	90%	98%	100%

“A-9” Flamed Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	85%	85%	100%
Safety Klean (1:3)	85%	85%	95%
Vana Trol® (1:6)	85%	85%	98%
Vana Trol® (1:8)	85%	85%	100%

“A-10” Sanded Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	90%	90%	95%
Safety Klean (1:3)	90%	90%	95%
Vana Trol® (1:6)	90%	90%	95%
Vana Trol® (1:8)	90%	90%	95%



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TEST RESULTS – New Construction Cleaning (continued)

% Removal

“A-11” Polished Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	100%	100%	100%
Safety Klean (1:3)	100%	100%	95%
Vana Trol® (1:6)	100%	100%	100%
Vana Trol® (1:8)	95%	100%	100%

“A-12” Polished & Vantage Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	100%	100%	100%
Safety Klean (1:3)	100%	100%	100%
Vana Trol® (1:8)	100%	100%	100%
Vana Trol® (1:10)	100%	100%	100%

“A-13” Honed Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	95%	95%	100%
Safety Klean (1:3)	95%	95%	100%
Vana Trol® (1:6)	95%	95%	100%
Vana Trol® (1:8)	95%	95%	100%

“A-14” Flamed Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	80%	95%	95%
Safety Klean (1:3)	80%	95%	95%
Vana Trol® (1:6)	80%	95%	95%
Vana Trol® (1:8)	80%	95%	95%

“A-15” Sanded Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	75%	90%	95%
Safety Klean (1:3)	75%	80%	95%
Vana Trol® (1:6)	90%	90%	95%
Vana Trol® (1:8)	60%	90%	95%



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TEST RESULTS – New Construction Cleaning (continued)

% Removal

“A-16” Polished Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	100%	100%	100%
Safety Klean (1:3)	100%	100%	100%
Vana Trol® (1:6)	100%	100%	100%
Vana Trol® (1:8)	100%	100%	100%

“A-17” Flamed Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	90%	95%	100%
Safety Klean (1:3)	90%	95%	100%
Vana Trol® (1:8)	90%	95%	100%
Vana Trol® (1:10)	90%	95%	100%

“A-18” Polished Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	95%	100%	100%
Safety Klean (1:3)	95%	100%	100%
Vana Trol® (1:6)	95%	100%	100%
Vana Trol® (1:8)	95%	100%	100%

“A-19” Flamed Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	90%	90%	98%
Safety Klean (1:3)	90%	90%	98%
Vana Trol® (1:6)	90%	90%	98%
Vana Trol® (1:8)	90%	90%	98%

“A-20” Polished Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	100%	100%	100%
Safety Klean (1:3)	100%	100%	100%
Vana Trol® (1:6)	100%	100%	100%
Vana Trol® (1:8)	100%	100%	100%



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TEST RESULTS – New Construction Cleaning (continued)

% Removal

“A-21” Flamed Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	90%	80%	100%
Safety Klean (1:3)	90%	80%	100%
Vana Trol® (1:6)	90%	80%	100%
Vana Trol® (1:8)	90%	80%	100%

“A-22” Polished Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	100%	100%	100%
Safety Klean (1:3)	100%	100%	100%
Vana Trol® (1:8)	100%	100%	100%
Vana Trol® (1:10)	100%	100%	100%

“A-23” Flamed Granite

	<u>Pro-Lastic®</u>	<u>Marble & Granite Mortar</u>	<u>Plaster of Paris</u>
Safety Klean (1:2)	90%	90%	95%
Safety Klean (1:3)	90%	90%	95%
Vana Trol® (1:6)	90%	90%	95%
Vana Trol® (1:8)	90%	90%	95%



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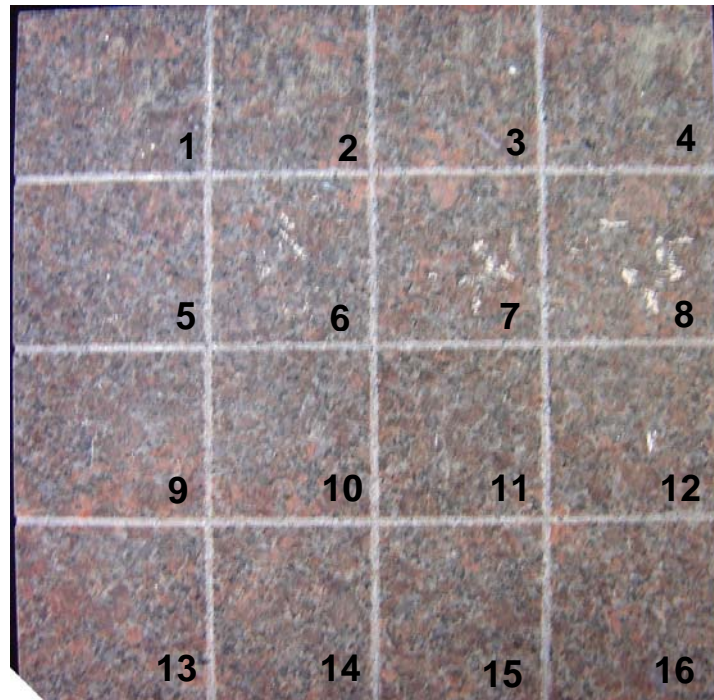


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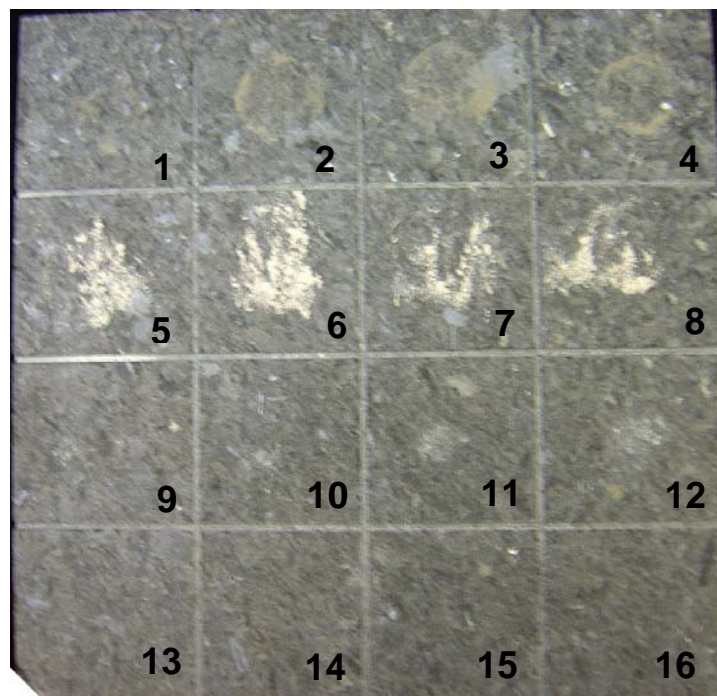
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PHOTOGRAPHS- New Construction Cleaning (Refer to Key on Page 14)

“A-3” Honed Granite



“A-10” Sanded Granite





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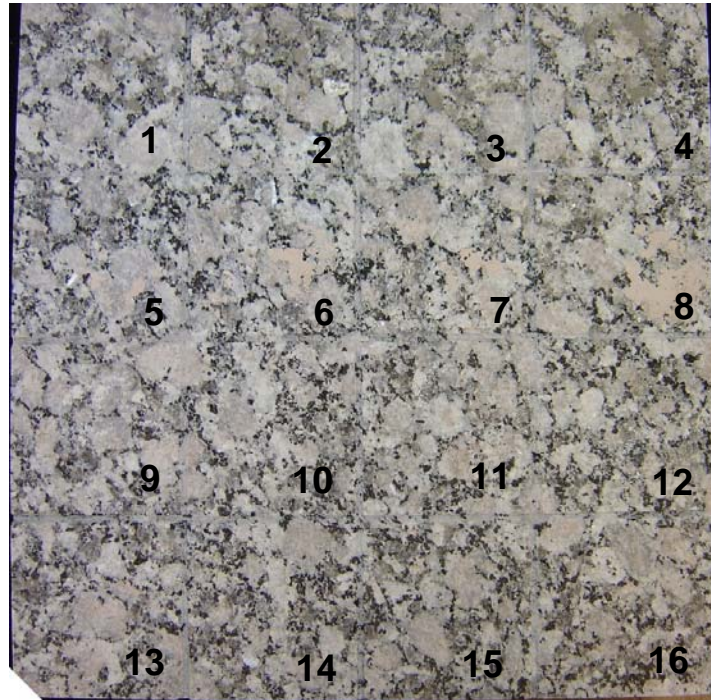


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PHOTOGRAPHS- New Construction Cleaning

“A-23” Flamed Granite



“A-20” Polished Granite

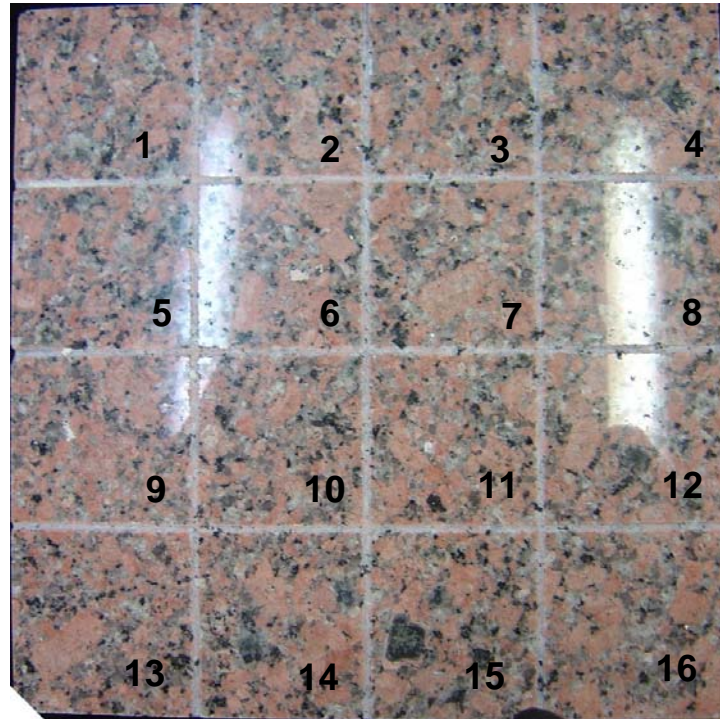


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PHOTOGRAPHS – Key

1. Pro-Lastic[®] Polymer Admixture Cleaned with Sure Klean[®] Vana Trol[®] 1:8
2. Pro-Lastic[®] Polymer Admixture Cleaned with Sure Klean[®] Vana Trol[®] 1:10
3. Pro-Lastic[®] Polymer Admixture Cleaned with Enviro Klean[®] Safety Klean 1:2
4. Pro-Lastic[®] Polymer Admixture Cleaned with Enviro Klean[®] Safety Klean 1:3
5. Plaster of Paris Cleaned with Sure Klean[®] Vana Trol[®] 1:8
6. Plaster of Paris Cleaned with Sure Klean[®] Vana Trol[®] 1:10
7. Plaster of Paris Cleaned with Enviro Klean[®] Safety Klean 1:2
8. Plaster of Paris Cleaned with Enviro Klean[®] Safety Klean 1:3
9. Marble & Granite Fortified Premium Grout Cleaned with Sure Klean[®] Vana Trol[®] 1:8
10. Marble & Granite Fortified Premium Grout Cleaned with Sure Klean[®] Vana Trol[®] 1:10
11. Marble & Granite Fortified Premium Grout Cleaned with Enviro Klean[®] Safety Klean 1:2



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- 12. Marble & Granite Fortified Premium Grout Cleaned with Enviro Klean[®] Safety Klean 1:3
- 13. Untreated Control
- 14. Untreated Control
- 15. Untreated Control
- 16. Untreated Control



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CONCLUSIONS – New Construction Cleaning

Based on the test results, all cleaners and all dilutions performed well in removing excess soils from the submitted granite. The cleaners performed well in removing the mortar soils even after allowing the mortar to remain on the surface of the granite for 3 days under ideal curing conditions.

It is also recommended that the selected cleaners always be used in the lowest possible concentration, typically a 1:3 dilution for Enviro Klean[®] Safety Klean, and a 1:8 dilution of Sure Klean[®] Vana Trol[®]. To facilitate easier removal of excess mortar and construction dirt while minimizing any potential adverse affect on the granite, clean within 3 days of construction.

RECOMMENDATIONS – New Construction Cleaning

Recommendations for cleaning for the granite submitted by Cold Spring Granite, Cold Spring, MN, are provided in the chart below. Recommendations are based on the optimum dilution for complete removal of mortar.

Cleaning Recommendation- Pro-Lastic[®] Polymer Admixture

Sample	New Construction Cleaning (3 day cleaning)
"A-2", "A-8", "A-11", "A-15" granite samples	Sure Klean [®] Vana Trol [®] 1:6
"A-5", "A-7" granite samples	Sure Klean [®] Vana Trol [®] 1:8
"A-1", "A-6" granite samples	Sure Klean [®] Vana Trol [®] 1:6 OR Enviro Klean [®] Safety Klean 1:2
All other submitted granite	Enviro Klean [®] Safety Klean 1:3 OR Sure Klean [®] Vana Trol [®] 1:8



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RECOMMENDATIONS – New Construction Cleaning

Cleaning Recommendation- Plaster of Paris

Sample	New Construction Cleaning (3 day cleaning)
"A-5" granite sample	Sure Klean [®] Vana Trol [®] 1:6
"A-15" granite sample	Sure Klean [®] Vana Trol [®] 1:6 OR Enviro Klean [®] Safety Klean 1:2
All other submitted granite	Enviro Klean [®] Safety Klean 1:3 OR Sure Klean [®] Vana Trol [®] 1:8

Cleaning Recommendation- Marble & Granite Premium Mortar

Sample	New Construction Cleaning (3 day cleaning)
"A-5", "A-11" granite samples	Sure Klean [®] Vana Trol [®] 1:6 OR Sure Klean [®] Vana Trol [®] 1:8
"A-4", "A-9" granite samples	Sure Klean [®] Vana Trol [®] 1:6 OR Enviro Klean [®] Safety Klean 1:2
All other submitted granite samples	Enviro Klean [®] Safety Klean 1:3 OR Sure Klean [®] Vana Trol [®] 1:8

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. Rinsing with high-pressure spray (400-800 psi) is recommended.

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



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SECTION B – LIMITING SURFACE ALTERATIONS

DESCRIPTION OF PRODUCTS EVALUATED – Limiting Surface Alterations

Enviro Klean® Safety Klean – An effective, safe alternative to acidic compounds for cleaning brick, tile, and concrete surfaces. Safety Klean rids new masonry construction of excess mortar, dirt, and other common job site soiling. It's ideal for projects where traditional acidic cleaners are not allowed. Non-fuming Safety Klean contains no hydrochloric or other traditional inorganic acids and is safe for use on and around metal surfaces. Liquid concentrate for dilution with up to three parts fresh water. Apply by brush, roller, or low-pressure spray.

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 4-25 parts water. Apply by brush or low-pressure spray.

TEST METHOD – Limiting 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.

Allow the appropriate dwell time, as specified.

Safety Klean	3 minutes
Vana Trol®	3 minutes

3. 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 – Limiting Surface Alterations

Substrate: Polished Granite		Number: "A-1"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0
Substrate: Polished & Vantage Granite		Number: "A-2"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0
Substrate: Honed Granite		Number: "A-3"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0
Substrate: Flamed Granite		Number: "A-4"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0

The following is the scale used for reporting results of all categories:	
0 – no change 1 – slight 2 – moderate	3 – heavy 4 – excessive



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TEST RESULTS – Limiting Surface Alterations

Substrate: Sanded Granite		Number: "A-5"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0
Substrate: Polished Granite		Number: "A-6"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0
Substrate: Polished & Vantage Granite		Number: "A-7"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0
Substrate: Honed Granite		Number: "A-8"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0

The following is the scale used for reporting results of all categories:



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0 – no change 1 – slight 2 – moderate	3 – heavy 4 – excessive
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TEST RESULTS – Limiting Surface Alterations

Substrate: Flamed Granite		Number: "A-9"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0
Substrate: Sanded Granite		Number: "A-10"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0
Substrate: Polished Granite		Number: "A-11"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0
Substrate: Polished & Vantage Granite		Number: "A-12"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0



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Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0

The following is the scale used for reporting results of all categories:	
0 – no change 1 – slight 2 – moderate	3 – heavy 4 – excessive

TEST RESULTS – Limiting Surface Alterations

Substrate: Honed Granite		Number: "A-13"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0
Substrate: Flamed Granite		Number: "A-14"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0
Substrate: Rainbow Granite		Number: "A-15"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0
Substrate: Polished Granite		Number: "A-16"			



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Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0

The following is the scale used for reporting results of all categories:	
0 – no change 1 – slight 2 – moderate	3 – heavy 4 – excessive

TEST RESULTS – Limiting Surface Alterations

Substrate: Flamed Granite		Number: "A-17"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0
Substrate: Polished Granite		Number: "A-18"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0
Substrate: Flamed Granite		Number: "A-19"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0



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Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0
Substrate: Polished Granite		Number: "A-20"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0

The following is the scale used for reporting results of all categories:	
0 – no change	3 – heavy
1 – slight	4 – excessive
2 – moderate	

TEST RESULTS – Limiting Surface Alterations

Substrate: Flamed Granite		Number: "A-21"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0
Substrate: Polished Granite		Number: "A-22"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol [®]	1:6	0	0	0	0
Vana Trol [®]	1:8	0	0	0	0
Substrate: Flamed Granite		Number: "A-23"			



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Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Safety Klean	1:2	0	0	0	0
Safety Klean	1:3	0	0	0	0
Vana Trol®	1:6	0	0	0	0
Vana Trol®	1:8	0	0	0	0

The following is the scale used for reporting results of all categories:	
0 – no change	3 – heavy
1 – slight	4 – excessive
2 – moderate	

CONCLUSIONS – Limiting Surface Alterations

None of the cleaners in any dilutions tested negatively affected the substrate in any way on any of the granite samples.

RECOMMENDATIONS – Limiting Surface Alterations

Recommendations for limiting surface alterations for the submitted granite by Cold Spring Granite, Cold Spring, MN, are provided in the chart below. Recommendations are based on the optimum dilution for removal of the various mortars while limiting surface alterations.

Limiting Surface Alterations- Pro-Lastic® Polymer Admixture

Sample	New Construction Cleaning (3 day cleaning)
“A-2”, “A-8”, “A-11”, “A-15” granite samples	Sure Klean® Vana Trol® 1:6



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“A-5”, “A-7” granite samples	Sure Klean [®] Vana Trol [®] 1:8
“A-1”, “A-6” granite samples	Sure Klean [®] Vana Trol [®] 1:6 OR Enviro Klean [®] Safety Klean 1:2
All other submitted granite	Enviro Klean [®] Safety Klean 1:3 OR Sure Klean [®] Vana Trol [®] 1:8

Limiting Surface Alterations- Plaster of Paris

Sample	New Construction Cleaning (3 day cleaning)
“A-5” granite sample	Sure Klean [®] Vana Trol [®] 1:6
“A-15” granite sample	Sure Klean [®] Vana Trol [®] 1:6 OR Enviro Klean [®] Safety Klean 1:2
All other submitted granite	Enviro Klean [®] Safety Klean 1:3 OR Sure Klean [®] Vana Trol [®] 1:8

RECOMMENDATIONS– Limiting Surface Alterations

Limiting Surface Alterations- Marble & Granite Premium Mortar

Sample	New Construction Cleaning (3 day cleaning)
“A-5”, “A-11” granite samples	Sure Klean [®] Vana Trol [®] 1:6 OR Sure Klean [®] Vana Trol [®] 1:8
“A-4”, “A-9” granite samples	Sure Klean [®] Vana Trol [®] 1:6 OR Enviro Klean [®] Safety Klean 1:2
All other submitted granite samples	Enviro Klean [®] Safety Klean 1:3 OR Sure Klean [®] Vana Trol [®] 1:8



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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. Rinsing with high-pressure spray (400-800 psi) is recommended.

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



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SECTION C – PROTECTIVE WATER REPELLENTS

The testing described below evaluates the suitability of water repellent treatments.

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

1. Weatherproofing properties
2. Color change
3. Ease of application

DESCRIPTIONS OF PRODUCTS EVALUATED – Protective Water Repellents

***Sure Klean® Weather Seal Natural Stone Treatment WB** – An odorless, water-based solution of potassium methyl silicate developed to effectively treat a wide range of natural stone and masonry surfaces. Natural Stone Treatment WB provides long-lasting repellency without altering the natural appearance of the substrate.

Stand Off® SLX100 Water & Oil Repellent – Combines water and oil repellency on most substrates to prevent staining by waterborne and oil substances. This modified “neat” silane system offers invisible protection and low volatility.

Sure Klean® Weather Seal SL100 Water Repellent – A modified, “neat” silane system that offers invisible protection and low volatility. SL100 protects horizontal and vertical concrete and masonry surfaces against water and waterborne contaminants. The small molecular structure of SL100 ensures maximum penetration and colorless protection of dense, color-sensitive surfaces. Ideal for GFRC, integrally colored pre-cast concrete and many types of natural stone.

TEST METHODS – Protective Water Repellents

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

The water absorption tube test simulating wind driven rain conditions was performed. This test simulates 60 mile per hour wind driven rain conditions for a period of 20 minutes. See Technical Services TECHNote RILEM Tube Test Procedures.

***Sure Klean® Weather Seal Natural Stone Treatment WB was not tested due to the white residue that appeared after application.**



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TEST RESULTS – Protective Water Repellents

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

RESULTS	
"A-1" Polished Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0
"A-2" Polished & Vantage Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0
"A-3" Honed Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0
"A-4" Flamed Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0
"A-5" Sanded Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0
"A-6" Polished Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0
"A-7" Polished & Vantage Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0



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TEST RESULTS – Protective Water Repellents

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

RESULTS	
“A-8” Honed Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0
“A-9” Flamed Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0
“A-10” Sanded Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0
“A-11” Polished Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0
“A-12” Polished & Vantage Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0
“A-13” Honed Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0
“A-14” Flamed Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0



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TEST RESULTS – Protective Water Repellents

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

RESULTS	
“A-15” Sanded Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0
“A-16” Polished Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0
“A-17” Flamed Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0
“A-18” Polished Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0
“A-19” Flamed Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0
“A-20” Polished Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0
“A-21” Flamed Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0



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TEST RESULTS – Protective Water Repellents

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

"A-22" Polished Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0
"A-23" Flamed Granite	
Untreated Control	0.0
SLX100	0.0
SL100	0.0

PHOTOGRAPHS- Water Repellency

"A-12" Polish & Vantage Granite

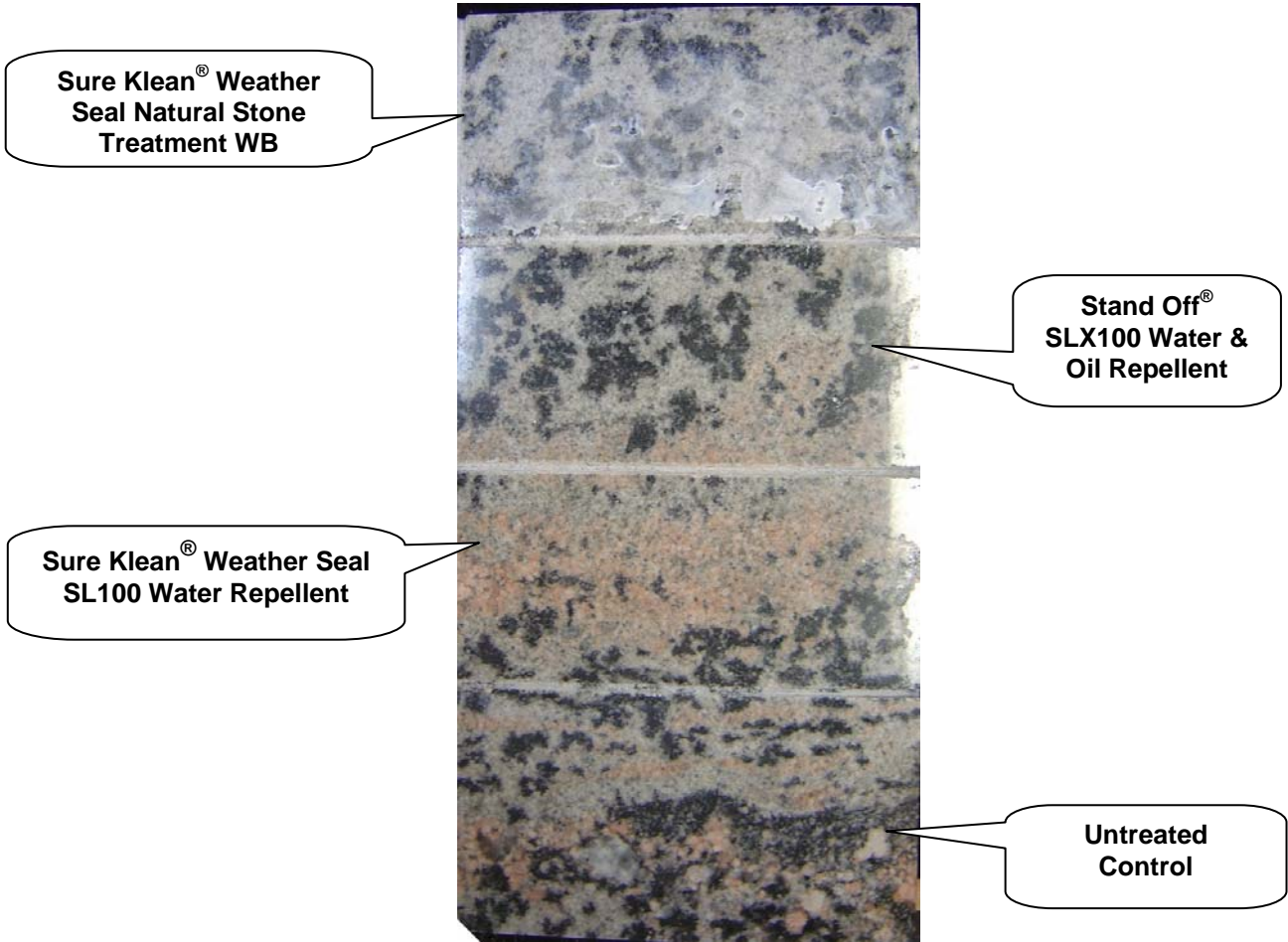


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CONCLUSIONS – Protective Water Repellents

Based upon laboratory evaluations, Sure Klean[®] Weather Seal SL100 and Stand Off[®] SLX100 Water & Oil Repellent provided excellent water repellency to all of the submitted granite samples. **However, Sure Klean[®] Natural Stone Treatment WB created a white residue on the surface of the samples, and was therefore not tested. Based on this application, Sure Klean[®] Natural Stone Treatment WB is not recommended to be applied to the submitted granite from Cold Springs Granite, Cold Spring, MN.**

RECOMMENDATIONS – Protective Water Repellents

Based on test results, all of the following treatments can be recommended for job-site testing on all of the granite submitted by Cold Spring Granite, Cold Spring, MN. Recommendations are based on the treatment that proved most effective and can provide water repellency on all types submitted.

Sample	Water Repellent	Dilution
All submitted samples	Sure Klean [®] Weather Seal SL100	Concentrate
	Stand Off [®] SLX100 Water & Oil Repellent	Concentrate

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 – STAIN RESISTANCE

DESCRIPTION OF PRODUCTS EVALUATED

These trials were conducted to determine the effectiveness of treatments in preventing food, oil, and miscellaneous staining on the submitted samples.

Products Evaluated for Stain Protection:

Stand Off® Stone, Tile & Masonry Protector – A penetrating oil and stain repellent. Easy-to-use. Low-VOC, low-odor protective treatment improves the stain resistance and simplifies maintenance cleaning of interior and exterior stone, quarry tile, concrete and masonry surfaces.

Stand Off® Impregnator – Combines water and oil repellency on most substrates to prevent staining by waterborne and oily substances. This modified special system offers invisible protection and low volatility. The small molecular structure of Impregnator lets it penetrate and chemically bond deep within the substrate to provide long-lasting protection against water- and oil-related staining and deterioration.

Stand Off® SLX100 Water & Oil Repellent - Combines water and oil repellency on most substrates to prevent staining by waterborne and oily substances. This modified “neat” silane system offers invisible protection and low volatility. The small molecular structure of SLX100 allows for maximum penetration at coverage rates higher than that of conventional silanes. Depth of penetration is controlled by the application rate (loading rate). This makes SLX100 ideal for protecting granite and other dense, color-sensitive surfaces.

Kitchen Products Evaluated:

Coca Cola
Ketchup
Mustard
Red wine
Balsamic Vinegar
Soy Sauce
Olive Oil
Wesson Oil
Coffee

Temperature:

ambient (~ 70°F)
ambient (~ 70°F)
ambient (~ 70°F)
ambient (~ 70°F)
ambient (~ 70°F)
ambient (~ 70°F)
ambient (~ 70°F)
ambient (~250°F)
ambient (~120°F)

SAMPLE PREPARATION – Stain Resistance

Samples were cleaned with Enviro Klean® 2010 All Surface Cleaner diluted with 10 parts water, allowed to dry and absorb atmospheric moisture for 24 hours prior to treatment. The method of application for protective treatments consisted of a wet-on-wet saturating brush application. Samples were allowed to cure for at least 1 week prior to testing.



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TEST METHOD – Stain Resistance

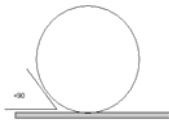
Surface Beading Evaluation

The food and oil products were applied to the test areas by using a dropper creating a bead 0.5 – 1.0 cm in diameter. 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” indicated 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” indicated that the oil quickly absorbed into the substrate and correlates to “below average” repellency.

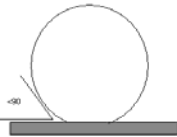
Note: Non-free flowing staining agents such as ketchup and mustard are applied in a blob and not evaluated for their beading properties.

Rating System (1-5)

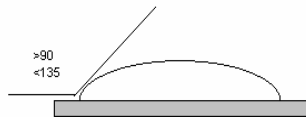
1. No wetting of contact area (no darkening); angle less than 90°



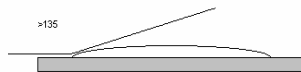
2. Wetting contained to the contact area (slight darkening); angle is less than 90°



3. Wetting contained to the contact area (slight darkening); angle is greater than 90°, but less than 135°.



4. Wetting beyond the contact area (darkening); angle is greater than 135°



5. Wetting beyond the contact area (darkening); angle is flat.

NO ANGLE



Stain Removal Evaluation

The soiling agents were allowed to dwell on the treated and untreated substrates for times of 24 hours, 4 hours, 1 hour, and 10 minutes. The test areas were then cleaned with Enviro Klean® 2010 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.



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TEST RESULTS – Surface Beading

“A-1” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	2	-	-	3	3	3	5	5	3
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2
“A-2” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	3	-	-	2	3	3	5	5	4
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2
“A-3” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	2	-	-	3	3	3	5	5	3
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2
“A-4” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	2	-	-	2	2	2	5	5	3
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2
“A-5” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	2	-	-	2	2	2	4	4	3
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2



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TEST RESULTS – Surface Beading

“A-6” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	2	-	-	3	3	3	5	5	3
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2
“A-7” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	3	-	-	2	3	3	5	5	4
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2
“A-8” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	2	-	-	3	3	3	5	5	3
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2
“A-9” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	2	-	-	2	2	2	5	5	3
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2
“A-10” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	2	-	-	2	2	2	4	4	3
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – Surface Beading

“A-11” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	2	-	-	3	3	3	5	5	3
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2
“A-12” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	3	-	-	2	3	3	5	5	4
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2
“A-13” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	2	-	-	3	3	3	5	5	3
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2
“A-14” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	2	-	-	2	2	2	5	5	3
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2
“A-15” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	2	-	-	2	2	2	4	4	3
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – Surface Beading

“A-16” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	2	-	-	3	3	3	5	5	3
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2
“A-17” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	3	-	-	2	3	3	5	5	4
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2
“A-18” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	2	-	-	3	3	3	5	5	3
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2
“A-19” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	2	-	-	2	2	2	5	5	3
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2
“A-20” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	2	-	-	2	2	2	4	4	3
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2



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STMP	1	-	-	1	1	1	2	2	2
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TEST RESULTS – Surface Beading

“A-21” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	2	-	-	3	3	3	5	5	3
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2
“A-22” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	3	-	-	2	3	3	5	5	4
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2
“A-23” Granite									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	2	-	-	3	3	3	5	5	3
SLX 100	1	-	-	1	1	1	2	2	2
Impregnator	1	-	-	1	1	1	2	2	2
STMP	1	-	-	1	1	1	2	2	2



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – STAINING REMOVAL

% Removal

“A-1” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



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TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-2” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



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PROSOCO, Inc.

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TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-3” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-4” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	90%	90%	90%	90%	90%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



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PROSOCO, Inc.

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TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-5” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	90%	100%	80%	80%	80%	80%	80%	100%
4 hour	100%	100%	100%	80%	80%	80%	80%	80%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



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TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-6” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-7” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-8” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-9” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



PALLET TAG PROGRAM LABORATORY REPORT



PROSOCO, Inc.

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TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-10” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	95%	95%	95%	95%	95%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-11” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-12” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-13” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-14” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	90%	90%	90%	90%	90%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-15” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-16” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	90%	95%	95%	95%	100%	80%	100%
4 hour	100%	100%	100%	95%	95%	95%	100%	80%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-17” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	90%	90%	90%	90%	90%	90%	90%	90%	100%
4 hour	100%	100%	100%	95%	95%	95%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	90%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	90%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	90%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	90%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	90%	100%	100%



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-18” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-19” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	95%	95%	95%	95%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-20” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-21” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	90%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregurator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-22” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“A-23” Granite

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	90%	100%	95%	95%	95%	95%	95%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	90%	90%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX 100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	90%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	90%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%

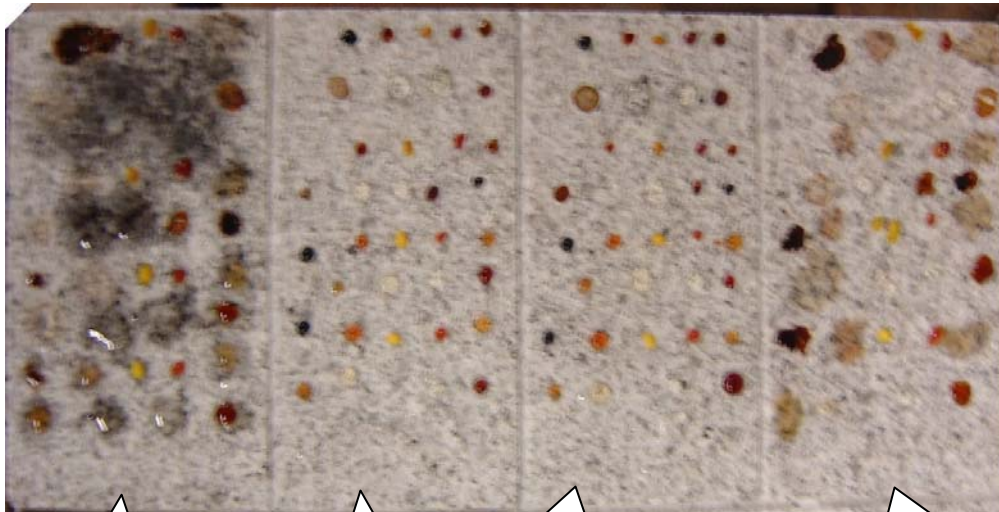


PALLET TAG PROGRAM LABORATORY REPORT



PHOTOGRAPHS- STAIN RESULTS

“A-17” Flamed Granite- Stains Applied



Untreated Control

Stand Off[®]
Impregnator

Stand Off[®] Stone, Tile,
& Masonry Protector

Stand Off[®] SLX 100
Water & Oil Repellent

“A-17” Flamed Granite- Stains Removed



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**Untreated
Control**

**Stand Off®
Impregnator**

**Stand Off® Stone, Tile,
& Masonry Protector**

**Stand Off® SLX 100
Water & Oil Repellent**



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CONCLUSIONS – Stain Resistance

Based upon laboratory evaluations, Stand Off® Stone, Tile, and Masonry Protector, Stand Off® SLX100 Water & Oil Repellent, and Stand Off® Impregnator provided equally effective treatments in repelling the staining agents on the submitted granite samples.

RECOMMENDATIONS – Stain Resistance

Recommendations for stain resistance treatment for each type of granite submitted by Cold Spring Granite, Cold Spring, MN, are provided in the charts below. Recommendations are based on the treatments that proved most effective for providing stain repellency on all types submitted.

Sample	Stain Repellent	Maintenance Cleaner
All submitted granite samples	Stand Off® SLX 100 Water & Oil Repellent OR Stand Off® Stone, Tile & Masonry Protector OR Stand Off® Impregnator	Enviro Klean® 2010 All Surface Cleaner (1:10)



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SECTION E – COLOR ENHANCEMENT:

DESCRIPTION OF PRODUCTS EVALUATED – Color Enhancement:

Sure Klean[®] 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. Paver Enhancer penetrates and reacts with the surface to form a chemical bond, providing long-lasting durability, alkali resistance and superior breathability.

TEST METHOD – COLOR ENHANCEMENT

Sure Klean[®] Paver Enhancer was applied in a wet-on-wet brush application.



PALLET TAG PROGRAM LABORATORY REPORT



TEST RESULTS- COLOR ENHANCEMENT

Granite Sample	Stand Off [®] Paver Enhancer
"A-2"	1
"A-3"	3
"A-4"	2
"A-5"	2
"A-7"	1
"A-8"	1
"A-9"	1
"A-10"	3
"A-12"	0
"A-13"	2
"A-14"	3
"A-15"	3
"A-17"	2
"A-19"	3
"A-21"	2
"A-23"	2

Scale: 0- No enhancement; dull

1- Slight Enhancement

2- Moderate Enhancement

3- Significant Enhancement



PALLET TAG PROGRAM LABORATORY REPORT



PHOTOGRAPHS- Color Enhancement

“A-3” Honed Granite



RECOMMENDATIONS – Color Enhancement

Recommendations for color enhancement for each type of granite submitted by Cold Spring Granite, Cold Spring, MN, are provided in the chart below. Recommendations are based on the treatment that proved most effective in providing color enhancement to the granite samples.

Substrate	Color Enhancer
“A-12” granite sample	None
All other submitted non-polished granite samples	Sure Klean® Paver Enhancer

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



PALLET TAG PROGRAM LABORATORY REPORT



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Nathan R. Colaner
Technical Analyst
NRC/



Laboratory Report

Pallet Tag Program Evaluation

**Cold Spring Granite
Cold Spring, MN**

Project No. 0403-06 PTP

Prepared For:

**Cold Spring Granite
Cold Spring, MN**

Prepared By:



***PROSOCO, Inc.
March 2004***