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Pallet Tag Program Laboratory Report Quarra Stone Company Madison, WI



Project No. 2108-03 PTP

Prepared For:



Prepared By:

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September 2021



Laboratory Report

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- FOR: Steve Ensor, Quarra Stone Company cc: Jim Lucas, JN Lucas & Associates, Inc. Ken Rathbun, PROSOCO, Inc. Jake Boyer, PROSOCO, Inc. Al Morris, PROSOCO, Inc.
- SUBJECT: Quarra Stone Company Madison, WI Pallet Tag Evaluation

DATE: September 15, 2021 PROJECT: 2108-03 PTP

Туре	Name	Finish	Color	Size
Quartzite	Vals Green Eyes	C120 Honed	Grey/Blue/Green	(1) 11" x 7.875"
Quartzite	Vals Green	C120 Honed	Green/White	(1) 11" x 7.875"
Quartzite	Vals Green	C320 Honed	Green/White	(1) 11" x 7.875"
Quartzite	Vals Green	Sandblasted	Green/White	(1) 11" x 7.875"
Quartzite	Vals Grey	Brushed	Grey/White/Brown	(1) 11" x 7.875"
Quartzite	Vals Grey	C120 Honed	Grey/White/Brown	(1) 11" x 7.875"
Quartzite	Vals Grey – Stained	C120 Honed	Grey/White/Brown	(1) 10" x 6.875" (1) 9" x 6.875" (1) 9" x 7.75"
Quartzite	Vals Grey	C220 Honed	Grey/White/Brown	(1) 11" x 7.875"
Quartzite	Vals Grey	C320 Honed	Grey/White/Brown	(1) 11" x 7.875"
Quartzite	Vals Grey	Polished	Grey/White/Brown	(1) 11" x 7.875"
Quartzite	Vals Grey	Sandblasted + Brushed	Grey/White/Brown	(1) 11" x 7.875"
Quartzite	Vals Grey	Sandblasted	Grey/White/Brown	(1) 11" x 7.875"

SAMPLES SUBMITTED: Eleven types of natural stone

SUBMITTED BY: Steve Ensor Business Development Manager/Sales Quarra Stone Company 333 Atlas Avenue Madison, WI 53714



PURPOSE OF TEST:

- To determine the effectiveness of appropriate PROSOCO, Inc. products in removing the orange staining from the submitted "Vals Grey C120 Honed" quartzite samples.
- To evaluate the color and sheen enhancement characteristics of specific PROSOCO, Inc. products on the submitted samples.
- To determine the effectiveness of appropriate PROSOCO, Inc. products in preventing food, oil, and miscellaneous staining on the submitted samples (where applicable).



PRODUCTS EVALUATED:

Orange Stain Removal	Dilution:
Sure Klean® Ferrous Stain Remover	Concentrate
Sure Klean® 800 Stain Remover	Concentrate
Sure Klean® Light Duty Restoration Cleaner	N/A*

Color and Sheen Enhancement	Dilution:
Sure Klean® Weather Seal Gloss 'N Guard	N/A*
Sure Klean® Weather Seal Gloss 'N Guard WB	N/A*

Stain Resistance	Dilution:
Sure Klean® Weather Seal Gloss 'N Guard	N/A*
Sure Klean® Weather Seal Gloss 'N Guard WB	N/A*

*NOTE: Per the product data sheet instructions, only use the product in concentrate. Do not dilute.



TEST METHODS: Orange Stain Removal

Sure Klean® Ferrous Stain Remover, Sure Klean® 800 Stain Remover, and Sure Klean® Light Duty Restoration Cleaner were evaluated to determine the optimal concentration of cleaner which removes the orange staining from the submitted "Vals Grey – C120 Honed" quartzite sample. The sample was visually examined following the cleaning procedure below.

Cleaning Procedure:

- 1. Pre-wet the surface and apply the cleaning solution according to PROSOCO, Inc. Product Data Sheet.
- 3. Reapply cleaning solution; do not let cleaner dry into the natural stone.
- 4. Rinse thoroughly with plenty of fresh water.*
- 5. Allow the sample to dry for at least 18 hours and visually examine.

***Rinsing Equipment –** Masonry washing equipment generating approximately 700-800 psi with a water flow rate of 8 gallons per minute delivered through a 40 degree fan spray tip was used for rinsing.

TEST RESULTS AND PHOTOGRAPHS: Orange Stain Removal

Name: "Vals Grey – C120 Honed" Quartzite				
Product	Dilution	Percent Stain Removal		
Ferrous Stain Remover	Concentrate	50%		
800 Stain Remover – First Cleaning	Concentrate	80%		
800 Stain Remover – Second Cleaning	Concentrate	90%		
Light Duty Restoration Cleaner	N/A*	90%		

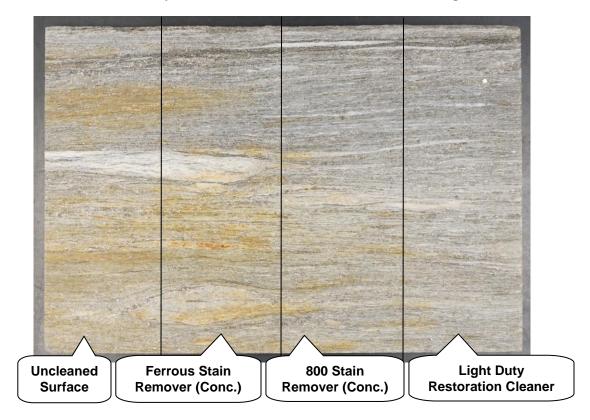


TEST RESULTS AND PHOTOGRAPHS: Orange Stain Removal



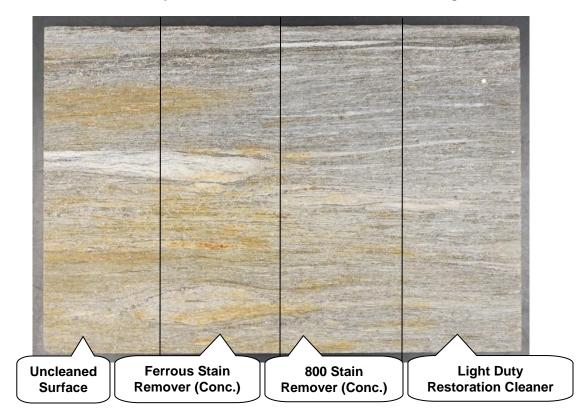
"Vals Grey – C120 Honed" Quartzite Before Cleaning

"Vals Grey – C120 Honed" Quartzite After First Cleaning



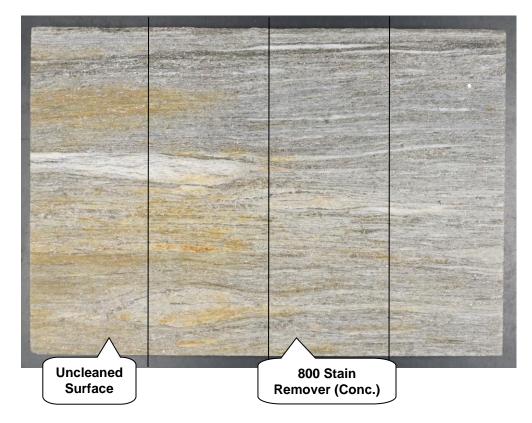


TEST RESULTS AND PHOTOGRAPHS: Orange Stain Removal



"Vals Grey – C120 Honed" Quartzite After First Cleaning

"Vals Grey – C120 Honed" Quartzite After Second Cleaning





CONCLUSIONS: Orange Stain Removal

In the stain removal tests conducted, Sure Klean® Ferrous Stain Remover, Sure Klean® 800 Stain Remover, and Sure Klean® Light Duty Restoration Cleaner proved effective in removing the orange staining from the submitted "Vals Grey – C120 Honed" quartzite samples. However, Sure Klean® 800 Stain Remover and Sure Klean® Light Duty Restoration Cleaner were the most effective.

It is recommended that the cleaner always be used in the lowest possible concentration. Apply all products in accordance with the manufacturer's recommendations 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.

RECOMMENDATIONS: Orange Stain Removal

Recommendations for removing the orange staining from the "Vals Grey – C120 Honed" quartzite samples submitted by Quarra Stone Company, Madison, WI are provided in the chart below.

Sample	Orange Stain Removal
"Vals Grey – C120 Honed" Quartzite	Sure Klean® 800 Stain Remover OR Sure Klean® Light Duty Restoration Cleaner

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.

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.



SAMPLE PREPARATION: Treatment Application

Prior to treatment application, the submitted natural stone samples were cleaned with Sure Klean® Vana Trol® diluted with eight parts water in accordance with the current PROSOCO, Inc. Product Data Sheet instructions. After the samples had dried for at least 24 hours, the treatments were applied in accordance with the current PROSOCO, Inc. Product Data Sheet instructions and allowed to cure for at least 72 hours prior to testing.

TEST METHODS: Color and Sheen Enhancement

After 72 hours, a visual evaluation was made comparing the untreated control surface to the treated surface to determine the effectiveness of the evaluated products in providing color and/or sheen enhancement to the submitted natural stone samples.

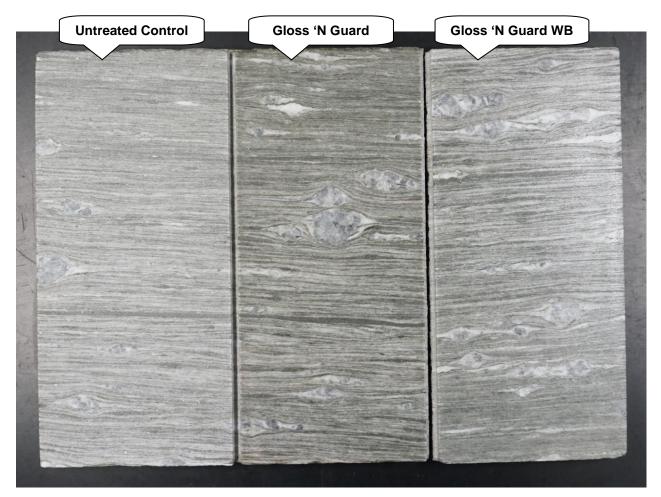
The following is the scale used for reporting results of both categories:

- 0 No enhancement compared to untreated surface
- 1 Slight enhancement compared to untreated surface
- 2 **Moderate enhancement** compared to untreated surface
- 3 Significant enhancement compared to untreated surface

NOTE: Due to the surface irregularities and varying nature of the natural stone, the substrate's color and sheen enhancement may vary from one area of the sample to another, as well as from sample to sample.



"Vals Green Eyes – C120 Honed" Quartzite	Color Enhancement	Sheen Enhancement
Sure Klean® Weather Seal Gloss 'N Guard	2	1
Sure Klean® Weather Seal Gloss 'N Guard WB	1	2



"Vals Green Eyes – C120 Honed" Quartzite After Application



"Vals Green – C120 Honed" Quartzite	Color Enhancement	Sheen Enhancement
Sure Klean® Weather Seal Gloss 'N Guard	2	1
Sure Klean® Weather Seal Gloss 'N Guard WB	1	2

"Vals Green – C120 Honed" Quartzite After Application





"Vals Green – C320 Honed" Quartzite	Color Enhancement	Sheen Enhancement
Sure Klean® Weather Seal Gloss 'N Guard	2	2
Sure Klean® Weather Seal Gloss 'N Guard WB	1	3



"Vals Green – C320 Honed" Quartzite After Application



"Vals Green – Sandblasted" Quartzite	Color Enhancement	Sheen Enhancement
Sure Klean® Weather Seal Gloss 'N Guard	2	1
Sure Klean® Weather Seal Gloss 'N Guard WB	1	2



"Vals Green – Sandblasted" Quartzite After Application



"Vals Grey – Brushed" Quartzite	Color Enhancement	Sheen Enhancement
Sure Klean® Weather Seal Gloss 'N Guard	3	2
Sure Klean® Weather Seal Gloss 'N Guard WB	1	3



"Vals Grey – Brushed" Quartzite After Application



"Vals Grey – C120 Honed" Quartzite	Color Enhancement	Sheen Enhancement
Sure Klean® Weather Seal Gloss 'N Guard	2	1
Sure Klean® Weather Seal Gloss 'N Guard WB	1	2



"Vals Grey – C120 Honed" Quartzite After Application



"Vals Grey – C220 Honed" Quartzite	Color Enhancement	Sheen Enhancement	
Sure Klean® Weather Seal Gloss 'N Guard	2	1	
Sure Klean® Weather Seal Gloss 'N Guard WB	1	2	



"Vals Grey – C220 Honed" Quartzite After Application



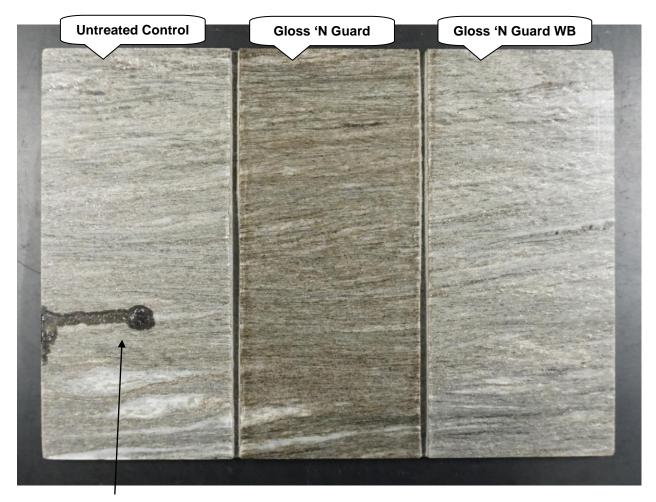
"Vals Grey – C320 Honed" Quartzite	Color Enhancement	Sheen Enhancement
Sure Klean® Weather Seal Gloss 'N Guard	3	2
Sure Klean® Weather Seal Gloss 'N Guard WB	1	3



"Vals Grey – C320 Honed" Quartzite After Application



"Vals Grey – Polished" Quartzite	Color Enhancement	Sheen Enhancement
Sure Klean® Weather Seal Gloss 'N Guard	2	2
Sure Klean® Weather Seal Gloss 'N Guard WB	1	3



"Vals Grey – Polished" Quartzite After Application

NOTE: The discoloration on the untreated control was present on the sample upon arrival.



"Vals Grey – Sandblasted + Brushed" Quartzite	Color Enhancement	Sheen Enhancement
Sure Klean® Weather Seal Gloss 'N Guard	2	1
Sure Klean® Weather Seal Gloss 'N Guard WB	1	2

"Vals Grey – Sandblasted + Brushed" Quartzite After Application





"Vals Grey – Sandblasted" Quartzite	Color Enhancement	Sheen Enhancement
Sure Klean® Weather Seal Gloss 'N Guard	2	1
Sure Klean® Weather Seal Gloss 'N Guard WB	1	2

Untreated Control	Gloss 'N Guard	Gloss 'N Guard WB
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"Vals Grey – Sandblasted" Quartzite After Application



CONCLUSIONS: Color and Sheen Enhancement

The treatments evaluated provided a range of color and sheen enhancement results, from a slight change in appearance to a significant change depending on the treatment and substrate. Application of Sure Klean® Weather Seal Gloss 'N Guard often resulted in moderate color enhancement and slight sheen enhancement, while application of Sure Klean® Weather Seal Gloss 'N Guard WB often resulted in slight color enhancement and moderate sheen enhancement. Please refer to pages 8-20 of the report for individual recommendations based on the desired result.

Enhancement levels may vary by substrate, color, lighting, orientation, application method, and other variables. Always test in the field to confirm intended results.

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

RECOMMENDATIONS: Color and Sheen Enhancement

Recommendations for color and sheen enhancement for each type of natural stone submitted by Quarra Stone Company, Madison, WI are provided in the chart below. Recommendations are based on the treatment(s) that proved most effective.

Sample	Color and Sheen Enhancement
"Vals Green Eyes – C120 Honed" Quartzite	
"Vals Green – C120 Honed" Quartzite	
"Vals Green – C320 Honed" Quartzite	
"Vals Green – Sandblasted" Quartzite	
"Vals Grey – Brushed" Quartzite	
"Vals Grey – C120 Honed" Quartzite	Please refer to pages 8-20 of the report for individual recommendations based on the desired result.
"Vals Grey – C220 Honed" Quartzite	
"Vals Grey – C320 Honed" Quartzite	
"Vals Grey – Polished" Quartzite	
"Vals Grey – Sandblasted + Brushed" Quartzite	
"Vals Grey – Sandblasted" Quartzite	

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



Temperature:

SAMPLE PREPARATION: Surface Beading and Stain Resistance

Each stain repellent was applied in accordance with the current PROSOCO, Inc. Product Date Sheet instructions. The treatments were allowed to cure for at least 72 hours prior to the stain testing described below.

TEST METHODS: Surface Beading Evaluation

Food and Oil Products Evaluated for Stain Testing:

Coca Cola	ambient (~70°F)
Ketchup	ambient (~70°F)
Mustard	ambient (~70°F)
Lotion	ambient (~70°F)
Hand soap	ambient (~70°F)
Red wine	ambient (~70°F)
Balsamic vinegar	ambient (~70°F)
Soy sauce	ambient (~70°F)
Olive oil	ambient (~70°F)
Wesson oil	250°F
Coffee	120°F

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 oils or liquids 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.

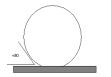


Rating System (1-5)

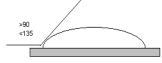
1. No wetting of contact area (no darkening); angle less than 90°



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°

×135

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

NO ANGLE



"Vals Green Eyes – C120 Honed" Quartzite					
	Untreated Control Gloss 'N Guard Gloss 'N Guard V				
Coca Cola	4	3	3		
Ketchup	N/A	N/A	N/A		
Mustard	N/A	N/A	N/A		
Lotion	N/A	N/A	N/A		
Hand Soap	N/A	N/A	N/A		
Red Wine	4	3	3		
Bals. Vin.	4	3	3		
Soy Sauce	4	3	3		
Olive Oil	5	3	3		
Wesson Oil	5	3	3		
Hot Coffee	5	3	3		

"Vals Green – C120 Honed" Quartzite					
	Untreated Control Gloss 'N Guard Gloss 'N Guard WE				
Coca Cola	4	3	3		
Ketchup	N/A	N/A	N/A		
Mustard	N/A	N/A	N/A		
Lotion	N/A	N/A	N/A		
Hand Soap	N/A	N/A	N/A		
Red Wine	4	3	3		
Bals. Vin.	4	3	3		
Soy Sauce	4	3	3		
Olive Oil	5	4	4		
Wesson Oil	5	4	4		
Hot Coffee	4	3	3		



"Vals Green – C320 Honed" Quartzite					
	Untreated Control Gloss 'N Guard Gloss 'N Guard W				
Coca Cola	3	3	3		
Ketchup	N/A	N/A	N/A		
Mustard	N/A	N/A	N/A		
Lotion	N/A	N/A	N/A		
Hand Soap	N/A	N/A	N/A		
Red Wine	3	3	3		
Bals. Vin.	3	3	3		
Soy Sauce	4	3	3		
Olive Oil	5	3	3		
Wesson Oil	5	3	3		
Hot Coffee	4	3	3		

"Vals Green – Sandblasted" Quartzite					
	Untreated Control Gloss 'N Guard Gloss 'N Guard WB				
Coca Cola	4	3	3		
Ketchup	N/A	N/A	N/A		
Mustard	N/A	N/A	N/A		
Lotion	N/A	N/A	N/A		
Hand Soap	N/A	N/A	N/A		
Red Wine	5	4	3		
Bals. Vin.	5	3	3		
Soy Sauce	4	3	3		
Olive Oil	5	3	3		
Wesson Oil	5	3	3		
Hot Coffee	4	3	3		



	"Vals Grey – Bru	ushed" Quartzite		
	Untreated Control	Gloss 'N Guard WB		
Coca Cola	4	3	3	
Ketchup	N/A	N/A	N/A	
Mustard	N/A	N/A	N/A	
Lotion	N/A	N/A	N/A	
Hand Soap	N/A	N/A	N/A	
Red Wine	4	3	3	
Bals. Vin.	4	3	3	
Soy Sauce	4	3	3	
Olive Oil	5	3	3	
Wesson Oil	5	3	3	
Hot Coffee	4	3	3	

	"Vals Grey – C120	Honed" Quartzite		
	Untreated Control	Gloss 'N Guard WB		
Coca Cola	4	3	3	
Ketchup	N/A	N/A	N/A	
Mustard	N/A	N/A	N/A	
Lotion	N/A	N/A	N/A	
Hand Soap	N/A	N/A	N/A	
Red Wine	4	3	3	
Bals. Vin.	4	3	3	
Soy Sauce	4	3	3	
Olive Oil	5	3	3	
Wesson Oil	5	3	3	
Hot Coffee	4	3	3	



	"Vals Grey – C220	Honed" Quartzite		
	Untreated Control	Gloss 'N Guard WB		
Coca Cola	3	3	3	
Ketchup	N/A	N/A	N/A	
Mustard	N/A	N/A	N/A	
Lotion	N/A	N/A	N/A	
Hand Soap	N/A	N/A	N/A	
Red Wine	3	3	3	
Bals. Vin.	3	3	3	
Soy Sauce	3	3	3	
Olive Oil	5	3	3	
Wesson Oil	5	3	3	
Hot Coffee	3	3	3	

	"Vals Grey – C320 Honed" Quartzite									
	Untreated Control	Gloss 'N Guard	Gloss 'N Guard WB							
Coca Cola	4	3	3							
Ketchup	N/A	N/A	N/A							
Mustard	N/A	N/A	N/A							
Lotion	N/A	N/A	N/A							
Hand Soap	N/A	N/A	N/A							
Red Wine	4	3	3							
Bals. Vin.	3	3	3							
Soy Sauce	3	3	3							
Olive Oil	5	3	3							
Wesson Oil	5	3	3							
Hot Coffee	4	3	3							



	"Vals Grey – Pol	ished" Quartzite			
	Untreated Control	Gloss 'N Guard WB			
Coca Cola	3	3	3		
Ketchup	N/A	N/A	N/A		
Mustard	N/A	N/A	N/A		
Lotion	N/A	N/A	N/A		
Hand Soap	N/A	N/A	N/A		
Red Wine	3	3	3		
Bals. Vin.	3	3	3		
Soy Sauce	3	3	3		
Olive Oil	5	3	3		
Wesson Oil	5	3	3		
Hot Coffee	3	3	3		

	"Vals Grey – Sandblast	ed + Brushed" Quartzite		
	Untreated Control	Gloss 'N Guard	Gloss 'N Guard WB	
Coca Cola	4	3	3	
Ketchup	N/A	N/A	N/A	
Mustard	N/A	N/A	N/A	
Lotion	N/A	N/A N/A		
Hand Soap	N/A	N/A	N/A	
Red Wine	4	3	3	
Bals. Vin.	4	3	3	
Soy Sauce	4	3	3	
Olive Oil	5	3	3	
Wesson Oil	5	3	3	
Hot Coffee	4	3	3	



	"Vals Grey – Sand	blasted" Quartzite		
	Untreated Control	Gloss 'N Guard WB		
Coca Cola	4	3	3	
Ketchup	N/A	N/A	N/A	
Mustard	N/A	N/A	N/A	
Lotion	N/A	N/A	N/A	
Hand Soap	N/A	N/A	N/A	
Red Wine	5	3	3	
Bals. Vin.	5	3	3	
Soy Sauce	5	3	3	
Olive Oil	5	3	3	
Wesson Oil	5	3	3	
Hot Coffee	4	3	3	



% Removal

TEST METHODS: Stain Resistance Evaluation

The soiling agents were allowed to dwell on the treated and untreated substrate for times of 24 hours, 4 hours, 1 hour, and 10 minutes. The test areas were then cleaned with Enviro Klean® Klean 'N Release Cleaner diluted with ten parts water and scrubbed under a stream of running water. The samples were allowed to dry for 24 hours. Evaluation consisted of a visual examination of the tested areas to determine the percentage of staining removal.

TEST RESULTS: Stain Resistance Evaluation

"Vals Green Eyes - C120 Honed" Quartzite

Untreate	d Contro	bl									
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	90%	<1%	100%	70%	90%	70%	70%	<1%	<1%	30%
4 hour	100%	90%	90%	100%	100%	100%	70%	70%	<1%	<1%	30%
1 hour	100%	90%	95%	100%	100%	100%	70%	70%	30%	30%	30%
10 min.	100%	90%	100%	100%	100%	100%	80%	80%	30%	30%	30%
Sure Kle	an® Wea	ather Sea	al Gloss '	N Guard							
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	100%	100%	100%	100%	100%	100%	70%	50%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	80%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Sure Kle	an® Wea	ather Sea	al Gloss '	N Guard	WB						
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	50%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	90%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

% Removal of stain following maintenance cleaning.

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



"Vals Green - C120 Honed" (Quartzite
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										% Re	moval
Untreate	ed Contro	bl									
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	70%	100%	50%	70%	100%	N/A*	<1%	<1%	100%
4 hour	100%	100%	100%	100%	100%	80%	100%	N/A*	<1%	<1%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	N/A*	20%	20%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	N/A*	30%	30%	100%
Sure Kle	Sure Klean® Weather Seal Gloss 'N Guard										
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	100%	100%	70%	100%	100%	80%	50%	30%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	50%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	80%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	80%	100%
Sure Kle	ean® Wea	ather Sea	al Gloss '	N Guard	WB						
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	50%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	90%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

% Removal of stain following maintenance cleaning.

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



"Vals Gree	en – C320	Honed"	Quartzite
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										% Re	moval
Untreate	d Contro	bl									
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	20%	100%	30%	70%	70%	100%	<1%	<1%	100%
4 hour	100%	100%	100%	100%	80%	70%	70%	100%	<1%	20%	100%
1 hour	100%	100%	100%	100%	100%	80%	100%	100%	50%	70%	100%
10 min.	100%	100%	100%	100%	100%	90%	100%	100%	90%	70%	100%
Sure Kle	an® Wea	ather Sea	al Gloss '	N Guard							
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	100%	100%	100%	100%	100%	100%	80%	50%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	90%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Sure Kle	an® Wea	ather Sea	al Gloss '	N Guard	WB						
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	50%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	90%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

% Removal of stain following maintenance cleaning.

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



"Vals	Green -	- Sandblasted"	Quartzite
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										% Re	moval
Untreate	ed Contro	ol									
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	<1%	100%	90%	90%	100%	N/A*	<1%	<1%	N/A*
4 hour	100%	100%	80%	100%	90%	100%	100%	N/A*	<1%	<1%	N/A*
1 hour	100%	100%	90%	100%	100%	80%	100%	N/A*	50%	50%	30%
10 min.	100%	100%	100%	100%	100%	100%	100%	N/A*	50%	50%	30%
Sure Kle	an® Wea	ather Sea	l Gloss '	N Guard							
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	100%	100%	50%	90%	100%	100%	30%	30%	100%
4 hour	100%	100%	100%	100%	90%	100%	100%	100%	80%	50%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	90%	70%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	80%	100%
Sure Kle	an® Wea	ather Sea	l Gloss '	N Guard	WB						
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	50%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	80%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

% Removal of stain following maintenance cleaning.

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



"Vals	Grey -	- Brushed"	Quartzite
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					,			-		% Re	moval
Untreate	d Contro	ol									
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	20%	100%	100%	80%	70%	70%	100%	<1%	<1%	100%
4 hour	100%	100%	100%	100%	100%	70%	70%	100%	<1%	<1%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	40%	40%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	40%	40%	100%
Sure Kle	an® Wea	ather Sea	al Gloss '	N Guard							
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	100%	100%	50%	100%	100%	100%	50%	30%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	80%	50%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Sure Kle	an® Wea	ather Sea	al Gloss '	N Guard	WB						
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffe
24 hour	100%	100%	50%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	90%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

% Removal of stain following maintenance cleaning.

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



					5		-			% Re	moval
Untreate	d Contro	bl									
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	100%	100%	100%	70%	70%	N/A*	<1%	<1%	100%
4 hour	100%	100%	100%	100%	100%	70%	70%	N/A*	<1%	<1%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	N/A*	20%	20%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	N/A*	30%	30%	100%
Sure Kle	Sure Klean® Weather Seal Gloss 'N Guard										
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	100%	100%	100%	100%	100%	100%	50%	30%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	50%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	70%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	70%	100%
Sure Kle	an® Wea	ather Sea	al Gloss '	N Guard	WB						
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	50%	100%	100%	100%	100%	100%	80%	100%	100%
4 hour	100%	100%	90%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

% Removal of stain following maintenance cleaning.

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



"Vals Gr	ey – C220	Honed"	Quartzite
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					- -					% Re	moval
Untreate	d Contro	bl									
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	100%	100%	100%	50%	50%	100%	<1%	<1%	100%
4 hour	100%	100%	100%	100%	100%	70%	70%	100%	<1%	<1%	100%
1 hour	100%	100%	100%	100%	100%	90%	100%	100%	30%	50%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	30%	50%	100%
Sure Kle	Sure Klean® Weather Seal Gloss 'N Guard										
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	100%	100%	100%	100%	100%	100%	30%	70%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Sure Kle	an® Wea	ather Sea	al Gloss '	N Guard	WB						
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	50%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	90%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

% Removal of stain following maintenance cleaning.

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



"Vals Gre	y – C320	Honed"	Quartzite
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					-					% Re	moval
Untreate	d Contro	bl									
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	20%	100%	30%	50%	100%	100%	<1%	<1%	100%
4 hour	100%	100%	100%	100%	100%	50%	100%	100%	<1%	<1%	100%
1 hour	100%	100%	100%	100%	100%	50%	100%	100%	<1%	<1%	100%
10 min.	100%	100%	100%	100%	100%	90%	100%	100%	<1%	<1%	100%
Sure Kle	Sure Klean® Weather Seal Gloss 'N Guard										
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	100%*	100%	100%	N/A*	N/A*	N/A*	20%	20%	100%
4 hour	100%	100%	100%*	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Sure Kle	an® Wea	ather Sea	al Gloss '	N Guard	WB						
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	50%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	90%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

% Removal of stain following maintenance cleaning.

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



"Vals	Grey -	Polished"	Quartzite
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								_		% Re	moval
Untreate	d Contro	bl									
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	<1%	100%	50%	70%	50%	50%	<1%	<1%	100%
4 hour	100%	100%	100%	100%	100%	70%	70%	70%	<1%	<1%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	50%	30%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	70%	50%	100%
Sure Kle	an® Wea	ather Sea	al Gloss '	N Guard							
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	100%*	100%	100%	100%	100%	100%	90%	50%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	80%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Sure Kle	an® We	ather Sea	al Gloss '	N Guard	WB						
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	50%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	90%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

% Removal of stain following maintenance cleaning.

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



"Vals Grey -	Sandblasted +	Brushed"	Quartzite
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				-						% Re	emoval
Untreated Control											
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	<1%	100%	50%	70%	70%	N/A*	<1%	<1%	100%
4 hour	100%	100%	90%	100%	80%	100%	70%	N/A*	<1%	<1%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	N/A*	30%	<1%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	80%	30%	100%
Sure Kle	Sure Klean® Weather Seal Gloss 'N Guard										
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	100%	100%	30%	100%	100%	100%	50%	30%*	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	70%	80%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Sure Kle	Sure Klean® Weather Seal Gloss 'N Guard WB										
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	50%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	90%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

% Removal of stain following maintenance cleaning.

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



"Vals Gre	y – Sandblasted"	Quartzite
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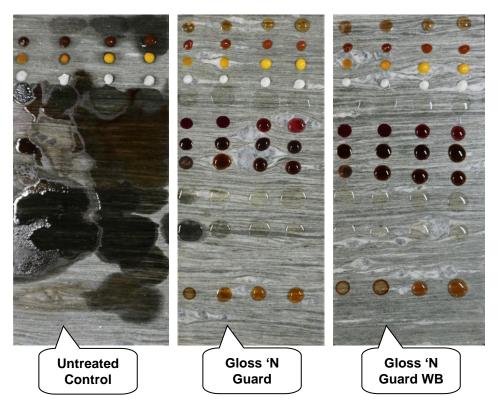
							% Removal				
Untreated Control											
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	<1%	100%	70%	100%	100%	100%	50%	50%	100%
4 hour	100%	100%	<1%	100%	100%	100%	100%	100%	50%	50%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	50%	50%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	50%	50%	100%
Sure Kle	Sure Klean® Weather Seal Gloss 'N Guard										
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffee
24 hour	100%	100%	100%	100%	30%	100%	100%	100%	30%	30%	100%
4 hour	100%	100%	100%	100%	50%	100%	100%	100%	50%	50%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	80%	80%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Sure Kle	Sure Klean® Weather Seal Gloss 'N Guard WB										
	Cola	Ketch.	Must.	Lotion	Hand Soap	Red Wine	Bals. Vin.	Soy Sauce	Olive Oil	Wesson Oil	Coffe
24 hour	100%	100%	50%	100%	100%	100%	100%	100%	80%	100%	100%
4 hour	100%	100%	90%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

% Removal of stain following maintenance cleaning.

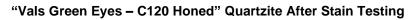
* Indicates etching of surface treatment due to the acidic nature of the staining agent.

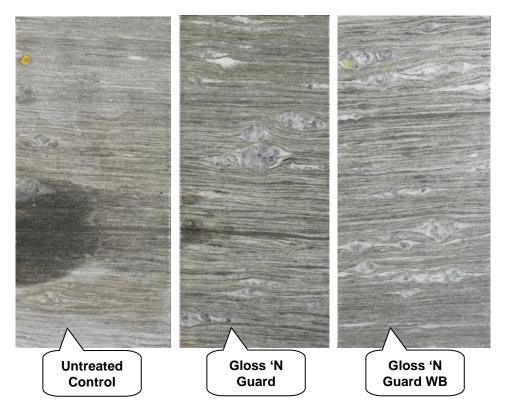


PHOTOGRAPHS: Stain Resistance Evaluation



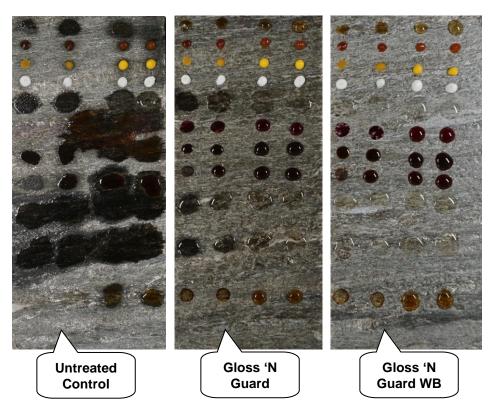
"Vals Green Eyes - C120 Honed" Quartzite With Stains







PHOTOGRAPHS: Stain Resistance Evaluation (cont.)



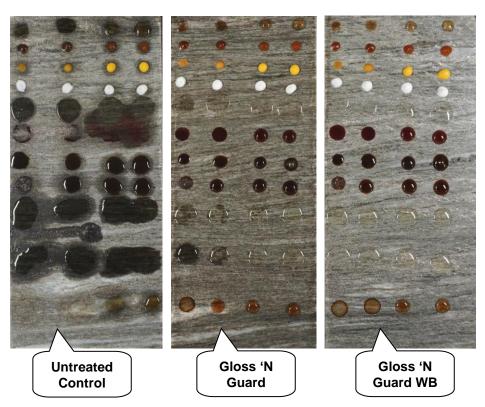
"Vals Grey – Brushed" Quartzite With Stains



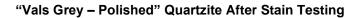


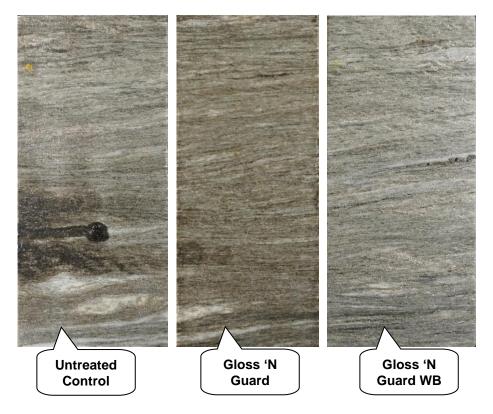


PHOTOGRAPHS: Stain Resistance Evaluation (cont.)



"Vals Grey – Polished" Quartzite With Stains







CONCLUSIONS: Surface Beading and Stain Resistance

In the surface beading evaluation, Sure Klean® Gloss 'N Guard and Sure Klean® Gloss 'N Guard WB improved the surface beading characteristics of the submitted natural stone.

In the stain resistance tests conducted, both Sure Klean® Gloss 'N Guard and Sure Klean® Gloss 'N Guard WB proved effective at repelling the applied stains on the submitted samples. However, Sure Klean® Gloss 'N Guard WB was the most effective.

NOTE: Due to the surface irregularities of the natural stone, the substrate's stain resistance may vary from one area of the stone to another.



RECOMMENDATIONS: Stain Resistance

Recommendations for stain resistance for each type of natural stone submitted by Quarra Stone Company, Madison, WI are provided in the chart below. Recommendations are based on the treatments that proved most effective for providing stain repellency on the submitted natural stone.

Sample	Stain Resistance
"Vals Green Eyes – C120 Honed" Quartzite	
"Vals Green – C120 Honed" Quartzite	
"Vals Green – C320 Honed" Quartzite	
"Vals Green – Sandblasted" Quartzite	
"Vals Grey – Brushed" Quartzite	<u>Stain Repellents</u> ¹ Sure Klean® Gloss 'N Guard WB
"Vals Grey – C120 Honed" Quartzite	OR ² Sure Klean® Gloss 'N Guard
"Vals Grey – C220 Honed" Quartzite	Maintenance Cleaner
"Vals Grey – C320 Honed" Quartzite	Enviro Klean® Klean 'N Release Cleaner (1:10)
"Vals Grey – Polished" Quartzite	
"Vals Grey – Sandblasted + Brushed" Quartzite	
"Vals Grey – Sandblasted" Quartzite	

NOTE: "1" indicates the most effective product and "2" indicates the second most effective product.

The ability of a stain repellent treatment to prevent staining is affected by a variety of factors. Therefore, on-site testing should be carried out for all installations with the recommended systems to ensure job site workmanship yields equivalent results.

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

J. Succes Conadoll

J. Lucas Comadoll QC/Project Testing Technician

ALL SAMPLES SUPPLIED FOR THE ABOVE EVALUATION WILL BE DISPOSED OF <u>THIRTY (30) DAYS</u> AFTER THE ISSUE DATE OF THIS REPORT. IF SAMPLES ARE TO BE RETAINED FOR ADDITIONAL TESTING OR RETURNED TO THE SENDER, PROVIDE WRITTEN INSTRUCTIONS TO THE LABORATORY WITHIN <u>THIRTY</u> (30) DAYS OF THE ISSUE DATE OF THIS REPORT.

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