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Product Data literature for all products evaluated





PROSOCO, Inc.

FOR: Melanie Macintosh

cc: John Bourne

Stephen Dean

SUBJECT: Quartzitec, Inc.

DATE: January 17, 2003

PROJECT: 0211-05 PTP

SAMPLES SUBMITTED: (8) different types of "QuartzStone® 2000 & 3000 series PMC tiles"

Sample	Color	Size
"Khaki"	Tan	
"Deep Blue"	Dark Blue	
"White Monument"	White	
"Tropical Blue"	Blue/Green	11 ¾" x 11 ¾" x ¼"
"Desert Beige"	Beige	11 /4 X 11 /4 X /4
"Taupe"	Brown	
"Olive"	Green	
"Linen Grey"	Gray	

Submitted by: Quartzitec, Inc.

15 Turner Court

Sussex, NB CANADA





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PURPOSE OF TESTING:

Eight samples of QuartzStone[®] tile were submitted to PROSOCO, Inc.'s Testing Laboratory for an evaluation of suitable cleaning products and protective treatments.

A. New Construction and Maintenance Cleaning – Enviro Klean[®] 2010 All Surface Cleaner and Stand Off[®] Rinseless Cleaner were evaluated for removal of laboratory applied mortar and grout and to determine the most appropriate maintenance cleaner.

To simulate new construction soiling, all samples are placed on a bench with finished surface facing upward. Hollow cylinders measuring 50 mm in diameter and 75 mm tall are positioned on top of each sample and filled with a wet mixture of either Ash Grove Type N cementitious mortar or Laticrete Tri-Poly Fortified Unsanded Grout. The wet mortar or grout-filled cylinder is allowed to remain in contact with the QuartzStone tile for 10 minutes before removal.

Heavy deposits of mortar/grout are removed with dry scraping after 24 hours. Prepared cleaning solutions are then evaluated for their effectiveness in removing residual mortar/grout staining after 7 days of curing.

B. Limiting Surface Alteration Testing - Enviro Klean[®] 2010 All Surface Cleaner and Stand Off[®] Rinseless Cleaner were tested to determine if a cleaning program implemented to remove excess mortar and related new construction soiling would alter the appearance of cleaned surfaces. Surface Alterations were evaluated visually based upon perceived discoloration or erosion/etching of the masonry unit. The following criteria were used:

<u>Surface Finish Removal</u> - the visual examination of the QuartzStone[®] comparing the surface finish of the untreated control surface to the surface finish cleaned with selected product(s).

<u>Substrate Deterioration</u> - the visual examination of the QuartzStone comparing the surface of the untreated control to surfaces cleaned with selected product(s) looking for any potential erosion/digestion of the cultured marble.

<u>Color Change</u> - the visual examination comparing the color of the untreated control surface to color of surfaces cleaned with selected product(s).

<u>Staining</u> - the visual examination for changes that are the result of a chemical reaction that leaves a staining precipitate.

C. Stain Resistance – Stand Off[®] Stone, Tile & Masonry Protector, Stand Off[®] Stain Barrier, Stand Off[®] Gloss 'N Guard WB, Stand Off[®] SLX 100 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 treated samples.



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CLEANING AND LIMITING SURFACE ALTERATIONS PRODUCTS EVALUATED

Sample	Product	Dilution
All submitted QuartzStone®	Enviro Klean [®] 2010 All Surface Cleaner	Concentrate
tiles	Stand Off [®] Rinseless Cleaner	Concentrate

STAIN REPELLENT PRODUCTS EVALUATED

Sample	Product	Dilution
	Stand Off [®] Stone, Tile & Masonry Protector	
	Stand Off [®] Stain Barrier	
All submitted QuartzStone [®] tiles	Stand Off [®] Gloss 'N Guard WB	Concentrate
	Stand Off [®] SLX100 Water & Oil Repellent	
	Stand Off [®] Impregnator	





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SECTION A -CLEANING

DESCRIPTION OF PRODUCTS EVALUATED – New Construction Cleaning

The new construction cleaning trials were conducted to determine the optimal cleaning/cure time combination to most efficiently remove Ash Grove Type N mortar and Laticrete Tri-Poly Fortified Unsanded Grout from the submitted QuartzStone samples.

Ash Grove Type N cementitious mortar and Laticrete Tri-Poly Fortified Unsanded Grout were prepared in compliance with the manufacturers' instructions, applied to the QuartzStone surface and allowed to cure for 7 days prior to cleaning. The removal of gray Ash Grove Type N cementitious masonry cement mortar and Laticrete Tri-Poly Fortified Unsanded Grout 7 days of curing was visually evaluated.

Enviro Klean[®] 2010 All Surface Cleaner – An effective, safe alternative to acidic compounds for cleaning stone, tile, and masonry surfaces. 2010 All Surface Cleaner is concentrated for tough industrial cleaning jobs yet is waterrinsable and contains no harsh acids, caustics, or solvents. Can be used in concentrate or diluted with up to 10 parts water. Apply by brush or low-pressure spray.

Stand Off[®] **Rinseless Cleaner** - A concentrated neutral cleaner for general cleaning of masonry, ceramic tile, grout, natural stone, and many other hard surfaces. Can also be used for maintaining surfaces protected with Stand Off[®] protective treatments. Ideal for interior or exterior applications for removing stains and soiling. Apply by brush or low-pressure spray.

TEST METHOD – New Construction Cleaning (Removal of Mortar/Grout)

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.

4. Rinse thoroughly.





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Test Results - New Construction Cleaning (Mortar/Grout Soiling)

% Removal

"Khaki"

PRODUCT	Type "N" Mortar	<u>Grout</u>
Enviro Klean® All Surface Cleaner	100%	100%
Stand Off [®] Rinseless Cleaner	100%	100%

"Deep Blue"

PRODUCT	Type "N" Mortar	<u>Grout</u>
Enviro Klean [®] All Surface Cleaner	100%	100%
Stand Off [®] Rinseless Cleaner	100%	100%

"White Monument"

PRODUCT	Type "N" Mortar	<u>Grout</u>
Enviro Klean [®] All Surface Cleaner	100%	100%
Stand Off [®] Rinseless Cleaner	100%	100%

"Tropical Blue"

PRODUCT	Type "N" Mortar	<u>Grout</u>
Enviro Klean [®] All Surface Cleaner	100%	100%
Stand Off [®] Rinseless Cleaner	100%	100%

"Desert Beige"

PRODUCT	<u>Type "N" Mortar</u>	<u>Grout</u>
Enviro Klean [®] All Surface Cleaner	100%	100%
Stand Off [®] Rinseless Cleaner	100%	100%

"Taupe"

PRODUCT	Type "N" Mortar	<u>Grout</u>
Enviro Klean [®] All Surface Cleaner	100%	100%
Stand Off [®] Rinseless Cleaner	100%	100%





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Test Results - New Construction Cleaning (Mortar/Grout Soiling) (Cont.)

"Olive"

PRODUCT	Type "N" Mortar	<u>Grout</u>
Enviro Klean [®] All Surface Cleaner	100%	100%
Stand Off [®] Rinseless Cleaner	100%	100%

"Linen Gray"

PRODUCT	<u>Type "N" Mortar</u>	<u>Grout</u>
Enviro Klean [®] All Surface Cleaner	100%	100%
Stand Off [®] Rinseless Cleaner	100%	100%

PHOTOGRAPHS - Cleaning

"Taupe"



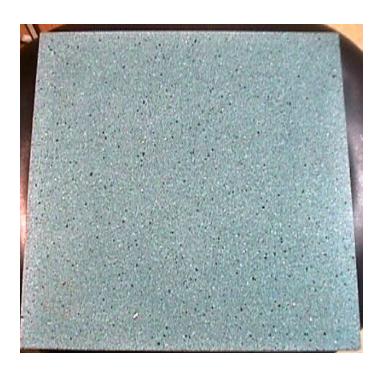




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PHOTOGRAPHS – Cleaning

"Tropical Blue"



CONCLUSIONS - Cleaning:

Both cleaners performed well in removing the mortar and grout soils even after allowing the mortar/grout to remain on the surface of the QuartzStone[®] for 7 days under ideal curing conditions.

To facilitate easier removal of excess mortar or grout while minimizing any potential surface alterations, clean within 7 days of construction.





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RECOMMENDED PRODUCTS AND DILUTIONS - CLEANING

Recommendations for cleaning for each type of QuartzStone[®] tile submitted by Quartzitec Inc., Sussex, New Brunswick, Canada are provided in the chart below. Recommendations are based on the optimum dilution for complete removal of mortar or grout.

Note: The products and dilutions recommended below can also be recommended for maintenance cleaning.

Туре	Color	New Construction Cleaning (Type N mortar or Laticrete Grout, 7 day)
	"Khaki"	
	"Deep Blue"	
	"White Monument"	
	"Tropical Blue"	Enviro Klean [®] 2010 All Surface Cleaner (concentrate)
QuartzStone [®]	"Desert Beige"	OR Stand Off [®] Rinseless Cleaner (concentrate)
	"Taupe"	
	"Olive"	
	"Linen Grey"	

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.





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SECTION B – Limiting Surface Alterations:

DESCRIPTION OF PRODUCTS EVALUATED - Surface Alterations:

Enviro Klean® 2010 All Surface Cleaner – An effective, safe alternative to acidic compounds for cleaning stone, tile, and masonry surfaces. 2010 All Surface Cleaner is concentrated for tough industrial cleaning jobs yet is waterrinsable and contains no harsh acids, caustics, or solvents. Can be used in concentrate or diluted with up to 10 parts water. Apply by brush or low-pressure spray.

Stand Off[®] **Rinseless Cleaner** - A concentrated neutral cleaner for general cleaning of masonry, ceramic tile, grout, natural stone, and many other hard surfaces. Can also be used for maintaining surfaces protected with Stand Off[®] protective treatments. Ideal for interior or exterior applications for removing stains and soiling. Apply by brush or low-pressure spray.

TEST METHOD – Limiting Surface Alteration Testing:

Chemical cleaners were evaluated using the following procedure:

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

4. Rinse thoroughly.

Limiting Surface Alteration Results:

Substrate: QuartzStone®	Color: "Khaki"	1			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Enviro Klean® 2010 All Surface Cleaner	Concentrate	0	0	0	0
Stand Off [®] Rinseless Cleaner	Concentrate	0	0	0	0
Substrate: QuartzStone®	Color: "Deep	Blue"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Enviro Klean® 2010 All Surface Cleaner	Concentrate	0	0	0	0
Stand Off [®] Rinseless Cleaner	Concentrate	0	0	0	0

Scale used for reporting results of all categories

0 – no change 3 – heavy 4 – excessive

2 - moderate





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Limiting Surface Alteration Results (cont.):

Substrate: QuartzStone®	Color: "White	Monument"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Enviro Klean® 2010 All Surface Cleaner	Concentrate	0	0	0	0
Stand Off [®] Rinseless Cleaner	Concentrate	0	0	0	0
Substrate: QuartzStone®	Color: "Tropica	al Blue"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Enviro Klean® 2010 All Surface Cleaner	Concentrate	0	0	0	0
Stand Off [®] Rinseless Cleaner	Concentrate	0	0	0	0
Substrate: QuartzStone®	Color: "Desert	Beige"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Enviro Klean® 2010 All Surface Cleaner	Concentrate	0	0	0	0
Stand Off [®] Rinseless Cleaner	Concentrate	0	0	0	0
Substrate: QuartzStone®	Color: "Taupe"	,			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Enviro Klean® 2010 All Surface Cleaner	Concentrate	0	0	0	•
		U	U	U	0
Stand Off [®] Rinseless Cleaner	Concentrate	0	0	0	0
Stand Off [®] Rinseless Cleaner					
	Concentrate				
Stand Off [®] Rinseless Cleaner Substrate: QuartzStone [®] Product Enviro Klean [®] 2010 All Surface Cleaner	Concentrate Color: "Olive"	0 Surface Finish	0 Substrate	0 Color	0
Stand Off [®] Rinseless Cleaner Substrate: QuartzStone [®] Product	Concentrate Color: "Olive" Dilution	0 Surface Finish Removal	0 Substrate Deterioration	0 Color Change	0 Staining
Stand Off [®] Rinseless Cleaner Substrate: QuartzStone [®] Product Enviro Klean [®] 2010 All Surface Cleaner	Concentrate Color: "Olive" Dilution Concentrate	Surface Finish Removal	0 Substrate Deterioration	Color Change	0 Staining 0
Stand Off [®] Rinseless Cleaner Substrate: QuartzStone [®] Product Enviro Klean [®] 2010 All Surface Cleaner Stand Off [®] Rinseless Cleaner	Concentrate Color: "Olive" Dilution Concentrate Concentrate	Surface Finish Removal	0 Substrate Deterioration	Color Change	0 Staining 0
Stand Off [®] Rinseless Cleaner Substrate: QuartzStone [®] Product Enviro Klean [®] 2010 All Surface Cleaner Stand Off [®] Rinseless Cleaner Substrate: QuartzStone [®]	Concentrate Color: "Olive" Dilution Concentrate Concentrate Color: "Linen	Surface Finish Removal 0 0 Grey" Surface Finish	Substrate Deterioration 0 0 Substrate	Color Change 0 Color	O Staining O O

Scale used for reporting results of all categories

 $\begin{array}{ll} 0-\text{no change} & 3-\text{heavy} \\ 1-\text{slight} & 4-\text{excessive} \\ 2-\text{moderate} & \end{array}$





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CONCLUSIONS – Surface Alterations

Test results show that neither Enviro Klean[®] 2010 All Surface Cleaner nor Stand Off[®] Rinseless Cleaner caused any type of surface alterations on the submitted QuartzStone[®] samples.

RECOMMENDED PRODUCTS AND DILUTIONS - LIMITING SURFACE ALTERATIONS

Recommendations for limiting surface alterations for each type of QuartzStone[®] tile submitted by Quartzitec Inc., Sussex, New Brunswick, Canada are provided in the chart below. Recommendations are based on the optimum dilution for removal of mortar and grout while limiting surface alterations.

Туре	Color	Limiting Surface Alterations
	"Khaki"	
	"Deep Blue"	
	"White Monument"	For the Idle on ® 2040 All Ourfees Ole on an (see a seatonte)
QuartzStone [®]	"Tropical Blue"	Enviro Klean [®] 2010 All Surface Cleaner (concentrate) OR Stand Off [®] Rinseless Cleaner (concentrate)
	"Desert Beige"	Stand On Kinseless Cleaner (concentrate)
	"Taupe"	
	"Olive"	
	"Linen Grey"	

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.





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SECTION C - 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, guarry tile, concrete and masonry surfaces.

Stand Off® Stain Barrier - 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[®] Gloss 'N Guard WB – A highly durable polyurethane protective coating for tile, pavers, terrazzo and other polished/unpolished masonry. Dries to a high-gloss finish, which enhances the natural beauty of the masonry. Creates a lasting protective shield of beauty and durability.

Stand Off® SLX 100 Water & Oil Repellent - A modified, "neat" silane system that offers invisible protection and low volatility. SLX 100 protects concrete and masonry surfaces against water and waterborne contaminants. In addition to water repellency SLX 100 offers stain resistance and chloride screen.

Stand Off[®] Impregnator – A deeply penetrating, invisible protective oil and stain repellent. Small molecular structure ensures deep penetration and chemically bonds within the structure to provide long-lasting protection against water and oil-related staining. Low odor. Lets treated surfaces "breathe" does not trap moisture.

Temperature:

Staining Agents Evaluated:

Coca Cola ambient (~70°F) Ketchup ambient (~70°F) Mustard 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





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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 2 weeks prior to testing.

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 ($<90^{\circ}$) 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)

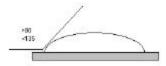
1. No wetting of contact area (no darkening); angle less than 90°



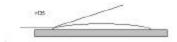
2. Wetting contained to the contact area (slight darkening); angle is less than 90°



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.





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TEST METHODS: Continued

Stain Resistance

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® 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.

TEST RESULTS – Surface Beading

			"Khaki"			
	Untreated Control	STMP	Stain Barrier	Gloss N' Guard WB	SLX 100	Impregnator
Coca Cola	3	3	3	3	3	3
Ketchup	N/A	N/A	N/A	N/A	N/A	N/A
Mustard	N/A	N/A	N/A	N/A	N/A	N/A
Red Wine	3	3	3	3	3	3
Balsamic Vinegar	3	3	3	3	3	3
Soy Sauce	3	3	3	3	3	3
Olive Oil	4	3	3	3	3	3
Wesson Oil	4	3	3	3	3	3
Hot Coffee	3	3	3	3	3	3

	"Deep Blue"							
	Untreated Control	STMP	Stain Barrier	Gloss N' Guard WB	SLX 100	Impregnator		
Coca Cola	3	3	3	3	3	3		
Ketchup	N/A	N/A	N/A	N/A	N/A	N/A		
Mustard	N/A	N/A	N/A	N/A	N/A	N/A		
Red Wine	3	3	3	3	3	3		
Balsamic Vinegar	3	3	3	3	3	3		
Soy Sauce	3	3	3	3	3	3		
Olive Oil	4	3	3	3	3	3		
Wesson Oil	4	3	3	3	3	3		
Hot Coffee	3	3	3	3	3	3		



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TEST RESULTS - Surface Beading (cont.)

	"White Monument"							
	Untreated Control	STMP	Stain Barrier	Gloss N' Guard WB	SLX 100	Impregnator		
Coca Cola	3	3	3	3	3	3		
Ketchup	N/A	N/A	N/A	N/A	N/A	N/A		
Mustard	N/A	N/A	N/A	N/A	N/A	N/A		
Red Wine	3	3	3	3	3	3		
Balsamic Vinegar	3	3	3	3	3	3		
Soy Sauce	3	3	3	3	3	3		
Olive Oil	4	3	3	3	3	3		
Wesson Oil	4	3	3	3	3	3		
Hot Coffee	3	3	3	3	3	3		

	"Tropical Blue"							
	Untreated Control	STMP	Stain Barrier	Gloss N' Guard WB	SLX 100	Impregnator		
Coca Cola	3	3	3	3	3	3		
Ketchup	N/A	N/A	N/A	N/A	N/A	N/A		
Mustard	N/A	N/A	N/A	N/A	N/A	N/A		
Red Wine	3	3	3	3	3	3		
Balsamic Vinegar	3	3	3	3	3	3		
Soy Sauce	3	3	3	3	3	3		
Olive Oil	4	3	3	3	3	3		
Wesson Oil	4	3	3	3	3	3		
Hot Coffee	3	3	3	3	3	3		



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TEST RESULTS - Surface Beading (cont.)

	"Desert Beige"							
	Untreated Control	STMP	Stain Barrier	Gloss N' Guard WB	SLX 100	Impregnator		
Coca Cola	3	3	3	3	3	3		
Ketchup	N/A	N/A	N/A	N/A	N/A	N/A		
Mustard	N/A	N/A	N/A	N/A	N/A	N/A		
Red Wine	3	3	3	3	3	3		
Balsamic Vinegar	3	3	3	3	3	3		
Soy Sauce	3	3	3	3	3	3		
Olive Oil	4	3	3	3	3	3		
Wesson Oil	4	3	3	3	3	3		
Hot Coffee	3	3	3	3	3	3		

	"Taupe"							
	Untreated Control	STMP	Stain Barrier	Gloss N' Guard WB	SLX 100	Impregnator		
Coca Cola	3	3	3	3	3	3		
Ketchup	N/A	N/A	N/A	N/A	N/A	N/A		
Mustard	N/A	N/A	N/A	N/A	N/A	N/A		
Red Wine	3	3	3	3	3	3		
Balsamic Vinegar	3	3	3	3	3	3		
Soy Sauce	3	3	3	3	3	3		
Olive Oil	4	3	3	3	3	3		
Wesson Oil	4	3	3	3	3	3		
Hot Coffee	3	3	3	3	3	3		



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TEST RESULTS - Surface Beading (cont.)

	"Olive"							
	Untreated Control	STMP	Stain Barrier	Gloss N' Guard WB	SLX 100	Impregnator		
Coca Cola	3	3	3	3	3	3		
Ketchup	N/A	N/A	N/A	N/A	N/A	N/A		
Mustard	N/A	N/A	N/A	N/A	N/A	N/A		
Red Wine	3	3	3	3	3	3		
Balsamic Vinegar	3	3	3	3	3	3		
Soy Sauce	3	3	3	3	3	3		
Olive Oil	4	3	3	3	3	3		
Wesson Oil	4	3	3	3	3	3		
Hot Coffee	3	3	3	3	3	3		

"Linen Grey"										
	Untreated Control	STMP	Stain Barrier	Gloss N' Guard WB	SLX 100	Impregnator				
Coca Cola	3	3	3	3	3	3				
Ketchup	N/A	N/A	N/A	N/A	N/A	N/A				
Mustard	N/A	N/A	N/A	N/A	N/A	N/A				
Red Wine	3	3	3	3	3	3				
Balsamic Vinegar	3	3	3	3	3	3				
Soy Sauce	3	3	3	3	3	3				
Olive Oil	4	3	3	3	3	3				
Wesson Oil	4	3	3	3	3	3				
Hot Coffee	3	3	3	3	3	3				





PROSOCO, Inc.

TEST RESULTS - Stain Resistance

Cleaned with: Enviro Klean® 2010 All Surface Cleaner (1:10)

"	K	h	а	k	i	

					"Khaki"				
	Untreated 0	Control							
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	80%	80%	75%	50%	60%	90%	<1%	<1%	90%
4 hour	90%	90%	75%	50%	80%	90%	<1%	<1%	90%
1 hour	100%	100%	90%	60%	90%	90%	20%	20%	90%
10 min.	100%	100%	90%	60%	90%	90%	20%	20%	90%
	Stand Off®	Stone, Tile	, & Masonry	y Protector					
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	90%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	90%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	90%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
	Stand Off [®]	Stain Barri	er						
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	80%	100%	100%	90%	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®	Gloss 'N G	uard WB						
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	90%	50%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	60%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	60%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	75%	100%	100%	100%	100%	100%	100%
	Stand Off®	SLX 100 W	ater & Oil F	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®	Impregnato	or						
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	90%	100%	100%	100%	100%	100%
						1	1		
4 hour	100%	100%	100%	90%	100%	100%	100%	100%	100%
4 hour 1 hour	100% 100%	100% 100%	100% 100%	90% 90%	100% 100%	100% 100%	100% 100%	100% 100%	100% 100%
	+					-			

[%] Removal of staining agent

^{*} Indicates etching due to acidic staining agent





PROSOCO, Inc. Page 20

TEST RESULTS - Stain Resistance (cont.)

	"Deep Blue"	,			
Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee

	Untreated C	Intreated Control										
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee			
24 hr	100%	80%	80%	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®	Stand Off® Stone, Tile, & Masonry Protector										

	otana on	Stand On Stone, The, & Mason y Frotector									
	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%		

	·	i i		·	The state of the s	The state of the s	i i	· ·	
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
	Stand Off [®]	Stain Barri	er						
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%

	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®	Gloss 'N Gi	uard WR						

	Stand Off	Stand Off Gloss 'n Guard WB											
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee				
24 hr	100%	80%	80%	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®	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%			

10 111111.	10070	10070	10070	10070	10070	10070	10070	10070	10070			
	Stand Off®	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%			

[%] Removal of staining agent

^{*} Indicates etching due to acidic staining agent





PROSOCO, Inc. Page 21

TEST RESULTS - Stain Resistance (cont.)

"Wh	itΔ	Moni	ument"

					"White Monum	ent"			
	Untreated C	Control							
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	80%	60%	60%	80%	90%	50%	50%	80%
4 hour	100%	100%	100%	60%	100%	90%	75%	75%	90%
1 hour	100%	100%	100%	60%	100%	90%	100%	100%	100%
10 min.	100%	100%	100%	75%	100%	90%	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%	600%	100%	100%	100%	100%	100%	90%
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 [®]	Stain Barri	er						
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	60%	60%	80%	90%	100%	100%	80%
4 hour	100%	100%	80%	75%	90%	100%	100%	100%	100%
1 hour	100%	100%	100%	80%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
	Stand Off [®]	Gloss 'N G	uard WB						
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	60%	100%	100%	100%	100%	100%	100%	90%
4 hour	100%	60%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	60%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	75%	100%	100%	100%	100%	100%	100%	100%
	Stand Off®	SLX 100 W	ater & Oil F	Repellent					
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	90%	90%	95%	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®	Impregnato	or						
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
				4000/	4000/	1000/	4000/	4000/	000/
24 hr	100%	100%	60%	100%	100%	100%	100%	100%	90%
24 hr 4 hour	100% 100%	100% 100%	60% 100%	100%	100%	100%	100%	100%	100%

[%] Removal of staining agent
* Indicates etching due to acidic staining agent





PROSOCO, Inc.

TEST RESULTS - Stain Resistance (cont.)

					"Tropical Blu	e"		%	Removal
	Untreated C	Control			-				
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	90%*	100%*	90*	60%*	80%*	80%*	<1%	<1%	75%*
4 hour	90%*	100%*	100%*	60%*	80%*	80%*	<1%	<1%	75%*
1 hour	100%*	100%*	100%*	60%*	80%*	80%*	<1%	<1%	75%*
10 min.	100%*	100%*	100%*	80%*	80%*	80%*	<1%	<1%	75%*
	Stand Off®	Stone, Tile,	& Masonry	y Protector					
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%*	100%*	80%*	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 [®]	Stain Barri	er	•		•	•		
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%*	100%*	80%*	100%*	100%	100%	100%	100%
4 hour	100%	100%	100%	80%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	75%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	75%	100%	100%	100%	100%	100%
	Stand Off®	Gloss 'N Gı	uard WB		•				
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	60%	100%	100%	100%*	100%	100%	100%	100%
4 hour	100%	60%	100%	100%	100%*	100%	100%	100%	100%
1 hour	100%	60%	100%	100%	100%*	100%	100%	100%	100%
10 min.	100%	80%	100%	100%	100%	100%	100%	100%	100%
	Stand Off®	SLX 100 W	ater & Oil F	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 [®]	Impregnato	or						
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%*	100%*	90%*	100%*	100%	100%	100%	100%
4 hour	100%	100%	100%	90%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	90%	100%	100%	100%	100%	100%
								10070	

[%] Removal of staining agent

^{*} Indicates etching due to acidic staining agent





PROSOCO, Inc. Page 23

TEST RESULTS - Stain Resistance (cont.)

% Removal

"Desert E	Beige'
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Untreated C	ontrol							
Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
100%	100%	60%	50%	75%	80%	<1%	<1%	80%
100%	100%	60%	60%	75%	80%	<1%	<1%	90%
100%	100%	80%	60%	75%	80%	<1%	<1%	100%
100%	100%	100%	70%	75%	80%	<1%	<1%	100%
	100% 100% 100%	100% 100% 100% 100% 100% 100%	Coca Cola Ketchup Mustard 100% 100% 60% 100% 100% 60% 100% 100% 80%	Coca Cola Ketchup Mustard Red Wine 100% 100% 60% 50% 100% 100% 60% 60% 100% 100% 80% 60%	Coca Cola Ketchup Mustard Red Wine Balsamic Vinegar 100% 100% 60% 50% 75% 100% 100% 60% 60% 75% 100% 100% 80% 60% 75%	Coca Cola Ketchup Mustard Red Wine Balsamic Vinegar Soy Sauce 100% 100% 60% 50% 75% 80% 100% 100% 60% 60% 75% 80% 100% 100% 80% 60% 75% 80%	Coca Cola Ketchup Mustard Red Wine Balsamic Vinegar Soy Sauce Olive Oil 100% 100% 60% 50% 75% 80% <1%	Coca Cola Ketchup Mustard Red Wine Balsamic Vinegar Soy Sauce Olive Oil Wesson Oil 100% 100% 60% 50% 75% 80% <1%

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%	80%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	80%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	90%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%

Stand Off[®] Stain Barrier

	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	90%	90%	75%	100%	100%	90%	100%	90%
4 hour	100%	100%	100%	75%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	80%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	90%	100%	100%	100%	100%	100%

Stand Off® Gloss 'N Guard WB

	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	60%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	60%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	60%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	90%	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%	90%*	80%	100%*	100%	100%	100%	100%
4 hour	100%	100%	90%*	80%	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%*	80%	100%*	100%	100%	100%	100%
4 hour	100%	100%	100%*	80%	100%*	100%	100%	100%	100%
1 hour	100%	100%	100%	80%	100%*	100%	100%	100%	100%
10 min.	100%	100%	100%	80%	100%	100%	100%	100%	100%

[%] Removal of staining agent

^{*} Indicates etching due to acidic staining agent





PROSOCO, Inc. Page 24

TEST RESULTS - Stain Resistance (cont.)

					"Taupe"			%	Removal
	Untreated 0	Control			•				
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	80%	80%	60%*	60%	80%*	100%	<1%	<1%	80%
4 hour	80%	80%	60%*	60%	90%*	100%	<1%	<1%	80%
1 hour	90%	90%	75%*	60%	90%*	100%	<1%	<1%	80%
10 min.	100%	100%	80%*	60%	90%*	100%	<1%	<1%	80%
	Stand Off®	Stone, Tile	, & Masonry	y Protector					
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%*	100%*	90%	100%*	100%	100%	100%	100%
4 hour	100%	100%	100%*	90%	100%*	100%	100%	100%	100%
1 hour	100%	100%	100%	90%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
	Stand Off [®]	Stain Barri	er						
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	50%*	75%	100%*	100%	100%	100%	100%
4 hour	100%	100%	100%*	80%	100%*	100%	100%	100%	100%
1 hour	100%	100%	100%	80%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	80%	100%	100%	100%	100%	100%
	Stand Off®	Gloss 'N G	uard WB						
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	60%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	60%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	75%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	80%	100%	100%	100%	100%	100%	100%
	Stand Off®	SLX 100 W	ater & Oil F	Repellent					
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%*	100%*	90%	100%*	100%	100%	100%	100%
4 hour	100%	100%*	100%*	90%	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®	Impregnato	or						
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffe
24 hr	100%	100%	90%*	90%	100%*	100%	100%	100%	100%
4 hour	100%	100%	100%*	90%	100%*	100%	100%	100%	100%
1 hour	100%	100%	100%*	90%	100%*	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%*	100%	100%	100%	100%

[%] Removal of staining agent

^{*} Indicates etching due to acidic staining agent





% Removal

PROSOCO, Inc. Page 25

TEST RESULTS - Stain Resistance (cont.)

					"Olive"				
	Untreated C	Control							
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%*	100%*	50%*	80%*	100%	<1%	<1%	100%
4 hour	100%	100%*	100%*	50%*	80%*	100%	<1%	<1%	100%
1 hour	100%	100%*	100%*	60%*	90%*	100%	<1%	<1%	100%
10 min.	100%	100%	100%	75%	100%	100%	<1%	<1%	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%*	90%*	75%	100%*	100%	100%	100%	100%
4 hour	100%	100%*	100%*	75%	100%*	100%	100%	100%	100%
1 hour	100%	100%	100%	75%	100%*	100%	100%	100%	100%
10 min.	100%	100%	100%	80%	100%	100%	100%	100%	100%
	Stand Off [®]	Stain Barri	er						
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%*	90%*	75%	100%	100%	100%	100%	100%
4 hour	100%	100%*	90%*	75%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	80%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
	Stand Off®	Gloss 'N G	uard WB						
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	60%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	75%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	80%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
	Stand Off®	SLX 100 W	ater & Oil F	Repellent					
	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®	Impregnato	or						
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%*	100%*	80%	100%*	100%	100%	100%	100%
4 hour	100%	100%*	100%*	80%	100%*	100%	100%	100%	100%
1 hour	100%	100%*	100%*	90%	100%*	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%

[%] Removal of staining agent
* Indicates etching due to acidic staining agent





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TEST RESULTS - Stain Resistance (cont.)

% Removal

	"Linen	Grey"	
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	Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee	
24 hr	80%	90%*	60%*	50%	80%*	100%	<1%	<1%	80%	
4 hour	80%	100%*	60%*	60%	80%*	100%	<1%	<1%	80%	
1 hour	90%	100%	80%*	60%	80%*	100%	<1%	<1%	80%	
10 min.	100%	100%	90%*	60%	80%*	100%	<1%	<1%	80%	
	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%*	90%*	80%	90%*	100%	100%	100%	80%	
4 hour	100%	100%	100%*	80%	100%*	100%	100%	100%	90%	
1 hour	100%	100%	100%	80%	100%*	100%	100%	100%	90%	
10 min.	100%	100%	100%	90%	100%*	100%	100%	100%	90%	
	Stand Off [®] Stain Barrier									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee	
24 hr	100%	100%	90%*	80%	90%*	100%	80%	80%	80%	
4 hour	100%	100%	100%	80%	90%*	100%	100%	100%	90%	
1 hour	100%	100%	100%	80%	100%	100%	100%	100%	90%	
10 min.	100%	100%	100%	90%	100%	100%	100%	100%	100%	
	Stand Off® Gloss 'N Guard WB									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee	
24 hr	100%	100%	60%	100%	100%	100%	100%	100%	100%	
4 hour	100%	100%	60%	100%	100%	100%	100%	100%	100%	
1 hour	100%	100%	75%	100%	100%	100%	100%	100%	100%	
10 min.	100%	100%	80%	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	

	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	90%*	80%	100%*	100%	100%	100%	80%
4 hour	100%	100%	100%*	80%	100%*	100%	100%	100%	90%
1 hour	100%	100%	100%	80%	100%*	100%	100%	100%	90%
10 min.	100%	100%	100%	80%	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	90%	100%*	90%*	80%	100%*	100%	100%	100%	80%
4 hour	100%	100%*	100%*	80%	100%*	100%	100%	100%	90%
1 hour	100%	100%	100%	80%	100%*	100%	100%	100%	90%
10 min.	100%	100%	100%	80%	100%*	100%	100%	100%	100%

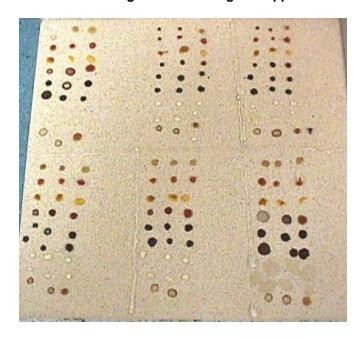
[%] Removal of staining agent
* Indicates etching due to acidic staining agent



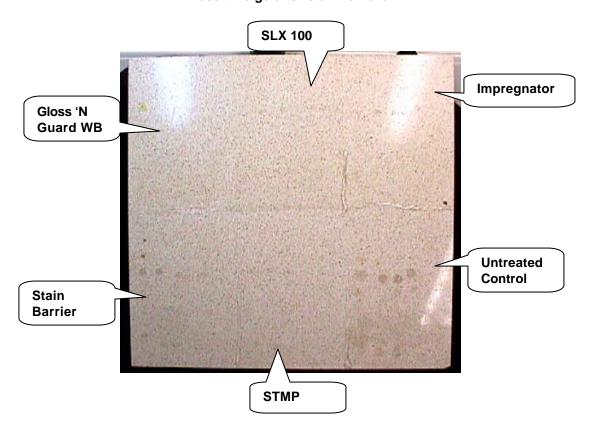
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PHOTOGRAPHS - Stain Resistance

"Desert Beige" with stain agents applied



"Desert Beige after stain removal"







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CONCLUSIONS - Stain Resistance

Based upon laboratory evaluations, all of the treatments evaluated were effective in repelling the staining agents from the submitted QuartzStone[®]. None of the applied treatments altered the appearance of the QuartzStone[®] in any way.

RECOMMENDATIONS - STAIN RESISTANCE

Recommendations for stain resistance treatment for each type of QuartzStone[®] tile submitted by Quartzitec Inc., Sussex, New Brunswick, Canada 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
"Khaki"		
"Deep Blue"	Stand Off [®] Stone, Tile, & Masonry Protector	
"White Monument"	OR Stand Off [®] Stain Barrier	
"Tropical Blue"	OR Stand Off [®] Gloss 'N Guard WB	Enviro Klean [®] 2010 All Surface Cleaner
"Desert Beige"	OR Stand Off Gloss in Guard WB Stand Off® SLX 100	(1:10)
"Taupe"	OR Stand Off [®] Impregnator	
"Olive"	Stand On Impregnator	
"Linen Grey"		

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 procedure for a particular project. See product literature for application and product information.

Courtney A. Williams

CAW/



Laboratory Report

Pallet Tag Program Evaluation

Quartzitec, Inc. Sussex, New Brunswick Canada

Project No. 0211-05 PTP

Prepared For:

Quartzitec, Inc. 15 Turner Court Sussex, New Brunswick Canada

Prepared By:



PROSOCO, Inc. January 2003