



PALLET TAG PROGRAM LABORATORY REPORT



PROSOCO, Inc.

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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: Rusty and Sue Craig, ConPave
cc: James Holt
Paul Tessier
Steve Dean

SUBJECT: ConPave (a division of Block USA)
Defuniak Springs, FL

DATE: August 9, 2004

PROJECT: 0407-14 PTP

SAMPLES SUBMITTED: Twenty-two types of concrete pavers

<u>Sample</u>	<u>Number</u>	<u>Color</u>	<u>Size</u>
"Terra Cotta"	6	Orange	8" x 8" x 2"
"Charcoal"	6	Gray	8" x 5" x 2"
"Buff"	6	Light Brown	8" x 4" x 3"
"Light Brown"	6	Brown	8" x 4" x 3"
"Red"	6	Red	6" x 6" x 2"
"St. Joe"	6	Red	8" x 4" x 3"
"Dark Brown"	6	Dark Brown	8" x 4" x 3"
"Dark Green"	6	Green	8" x 4" x 3"
"0-3"	4	Red	6" x 6" x 2"
"White"	6	White	8" x 4" x 3"
"Bone"	6	Green	8" x 8" x 2"
"Light Almond"	6	Light Gray	8" x 4" X 3"
"Peach"	6	Light Red	8" x 4" x 3"
"Maize"	6	Light Yellow	8" x 4" x 3"
"Dark Almond"	6	Brown	8" x 4" x 3"
"Pink"	6	Pink	8" x 4" x 3"
"Seacrest Yellow"	6	Yellow	8" x 4" x 3"
"CM32"	6	Red	8" x 4" x 3"
"Grey"	6	Gray	8" x 4" x 3"
"Slate"	6	Dark Gray	8" x 5" x 2" and 6" x 6" x 2"
"Bayou Blend"	6	Brown	8" x 8" x 2"
"Desert Fire"	6	Yellow/Gray	8" x 4" x 3"

Submitted by: James Holt



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PURPOSE OF TESTING:

Twenty-two types of integrally colored concrete pavers, all with large, small and fine aggregate were submitted for testing using PROSOCO's new construction cleaning, water repellent, color enhancement, and stain repellent products.

A. Cleaning (Adverse Effects Testing): Sure Klean® Custom Masonry Cleaner and Enviro Klean® Safety Klean were evaluated to determine if they create any adverse effects when used on the surface of the concrete pavers.

B. Protective Water Repellents - Sure Klean® Paver Enhancer, Consolideck® Saltguard® WB, Stand Off® SLX100 Water & Oil Repellent, and Stand Off® Impregnator were evaluated for their ability to provide water repellency to the submitted samples.

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

D. Stain Repellency – Stand Off® Stone, Tile & Masonry Protector, Stand Off® SLX100 Water & Oil Repellent, and Stand Off® Impregnator were evaluated for their ability to provide stain repellency to the submitted samples.



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PRODUCTS EVALUATED FOR CLEANING (ADVERSE EFFECTS)

Sample	Product	Dilution
All Submitted Concrete Pavers	Sure Klean® Custom Masonry Cleaner	1:6
	Enviro Klean® Safety Klean	1:3

WATER REPELLENT PRODUCTS EVALUATED

Sample	Product
All Submitted Concrete Pavers	Sure Klean® Paver Enhancer
	Consolideck® Saltguard® WB
	Stand Off® SLX100 Water & Oil Repellent
	Stand Off® Impregnator

COLOR ENHANCEMENT PRODUCTS EVALUATED

Sample	Product
All Submitted Concrete Pavers	Sure Klean® Paver Enhancer
	Stand Off® Gloss 'N Guard

STAIN REPELLENCY PRODUCTS EVALUATED

Sample	Product
All Submitted Concrete Pavers	Stand Off® Stone, Tile, and Masonry Protector (STMP)
	Stand Off® SLX100 Water & Oil Repellent
	Stand Off® Impregnator



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SECTION A – CLEANING (Adverse Effects)

DESCRIPTION OF PRODUCTS EVALUATED

These cleaning trials were conducted to determine the optimal cleaning/cure time combination.

Sure Klean® Custom Masonry Cleaner – A general purpose, concentrated acidic cleaner for most custom masonry and colored concrete. Removes concrete splashes, excess mortar, mud, heavy efflorescence and surface soiling, leaving the masonry clean and uniform with no acid burning or streaking. Liquid concentrate for dilution with 2-6 parts water. Apply by brush or low-pressure spray.

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. 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 most metal surfaces. Always test. Additionally, it is up to 70 percent more effective than citric and glycolic acids, and 50 percent more effective than phosphoric acid.

TEST METHOD – Cleaning

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

1. Prewet the surface with water.
2. Apply the cleaner at the appropriate dilutions.
3. Allow appropriate dwell time for each cleaner:
 Custom Masonry Cleaner 3 minutes
 Safety Klean..... 3-5 minutes
4. Reapply the product and moderately agitate with a brush.
5. Pressure rinse thoroughly.*
6. Allow the surface to dry for at least 18 hours and visually examine.

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



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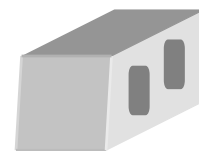
TEST RESULTS – Cleaning (Adverse Effects)

% removal

“Terra Cotta”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“Charcoal”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“Buff”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“Light Brown”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“Red”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“St. Joe”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“Dark Brown”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“Dark Green”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	



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TEST RESULTS – Cleaning (Adverse Effects) cont.

% removal

“0-3”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“White”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“Bone”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“Light Almond”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“Peach”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“Maize”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“Dark Almond”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“Pink”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	



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TEST RESULTS – Cleaning (Adverse Effects) cont.

% removal

“Seacrest Yellow”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“CM32”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“Grey”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“Slate”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“Slate”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“Bayou Blend”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	
“Desert Fire”		
Product	Dilution	Adverse Effects?
Custom Masonry Cleaner	1:6	No adverse effects; removed slight concentrations of surface pigment, exposing slight amounts of aggregate and enhancing the natural color of the paver
Safety Klean	1:3	



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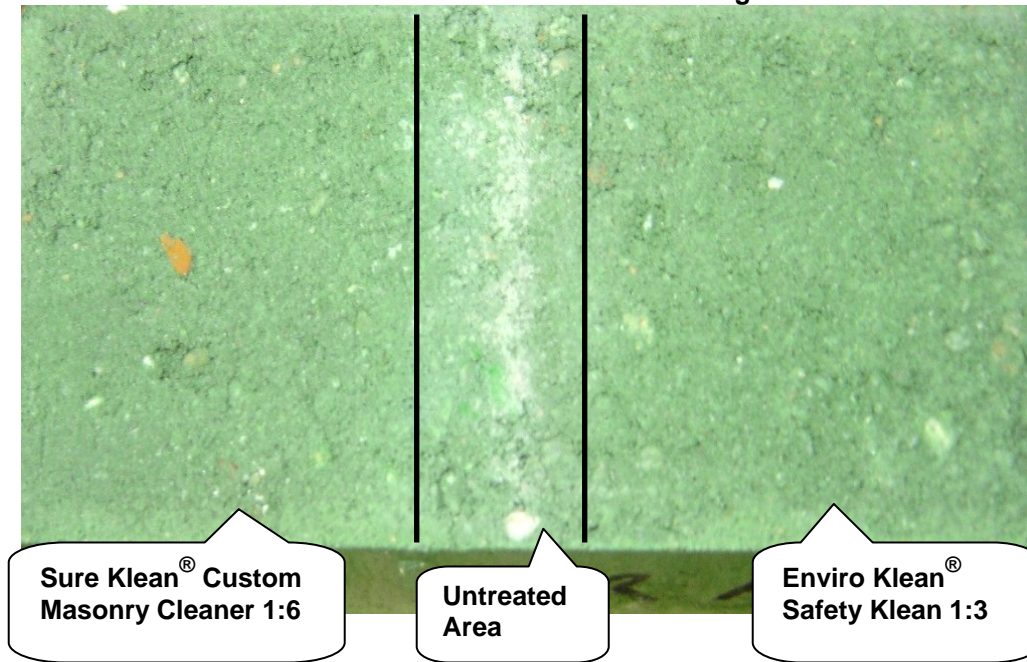


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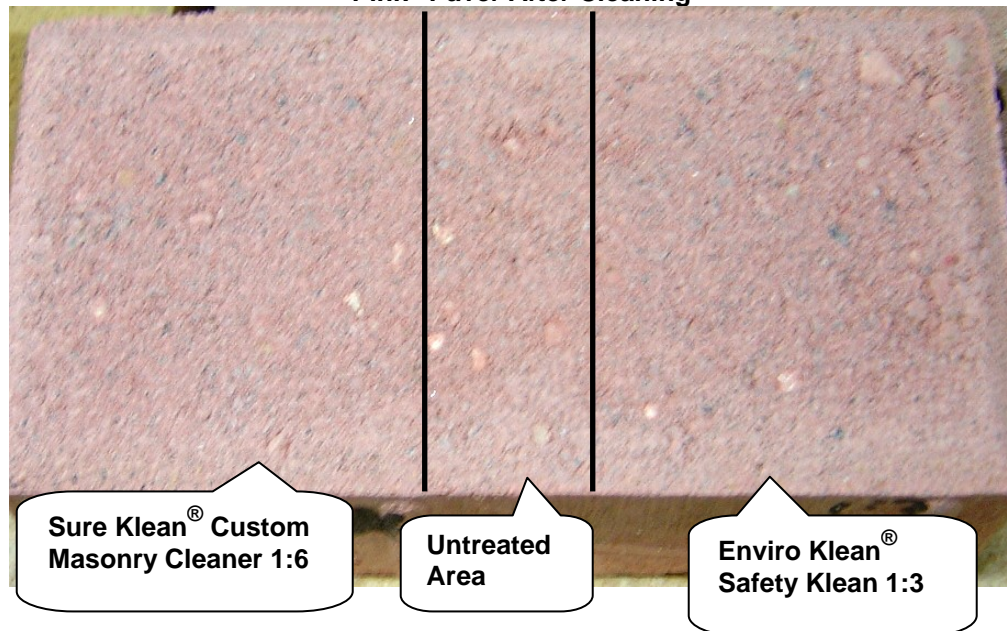
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PHOTOGRAPHS- Cleaning

"Dark Green" Paver After Cleaning



"Pink" Paver After Cleaning





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CONCLUSIONS - Cleaning (Adverse Effects)

Based on the test data, neither Sure Klean[®] Custom Masonry Cleaner diluted with six parts water nor Enviro Klean[®] Safety Klean diluted with three parts water caused any adverse effects on the submitted concrete pavers. Both cleaners removed slight concentrations of pigmented matrix, exposing small and large aggregate. Both cleaners enhanced the natural appearance of the concrete pavers.

RECOMMENDED PRODUCTS AND DILUTIONS - CLEANING

Recommendations for new construction cleaning for each type of concrete paver submitted by ConPave (a division of Block USA), Defuniak Springs, FL are provided in the chart below.

Sample	New Construction Cleaning
All Submitted Concrete Pavers	Sure Klean [®] Custom Masonry Cleaner (1:6) OR Enviro Klean [®] Safety Klean (1:3)

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. Pressure rinsing equipment providing at least 400 psi at 4-6 gpm delivered through a 15-40 degree fan spray often produces best cleaning 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 cleaning product and procedures for a particular project. See product literature for additional application and product information.



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SECTION B - 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® 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-term durability, alkali resistance and superior breathability.

Consolidock® Saltguard® WB – A ready-to-use water-based, VOC compliant silane/siloxane water repellent and “chloride screen” for the protection of concrete and masonry surfaces. Saltguard® WB penetrates more deeply than conventional water- or solvent-based water repellents. Low odor and alkaline stable, Saltguard® WB is ideal for field or in-plant application to concrete and most masonry surfaces. Saltguard® WB protects horizontal and vertical surfaces from moisture intrusion and chemical attack of chloride salts.

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.

Stand Off® Impregnator – Combines water and oil repellency to prevent staining by waterborne or oily substances. This special system offers invisible protection and low volatility. In addition, Impregnator forms an effective chloride screen that reduces surface erosion and corrosion of rebar in reinforced concrete caused by water and water-carried salts.



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SAMPLE PREPARATION - Protective Water Repellents:

The submitted pavers were pressure rinsed with 1300 psi water, allowed to dry, and to reabsorb atmospheric humidity for 24 hours prior to treatment. All products were applied in accordance with the recommendations in the 2004 PROSOCO, Inc. product guide. Sure Klean® Paver Enhancer, Stand Off® SLX100 Water & Oil Repellent, and Stand Off® Impregnator were allowed to cure on all samples for 72 hours, and Consolideck® Saltguard® WB was allowed to cure for 14 days.

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 TECH Note RILEM Tube Test Procedures.



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TEST RESULTS - Protective Water Repellents:

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

RESULTS	
"Terra Cotta"	
Untreated Control	< 40 mph
SLX100	60 mph
Impregnator	60 mph
Paver Enhancer	60 mph
Saltguard WB	59 mph
"Charcoal"	
Untreated Control	< 40 mph
SLX100	59 mph
Impregnator	59 mph
Paver Enhancer	58 mph
Saltguard WB	56 mph
"Buff"	
Untreated Control	< 40 mph
SLX100	59 mph
Impregnator	60 mph
Paver Enhancer	50 mph
Saltguard WB	58 mph
"Light Brown"	
Untreated Control	< 40 mph
SLX100	59 mph
Impregnator	60 mph
Paver Enhancer	58 mph
Saltguard WB	60 mph
"Red"	
Untreated Control	< 40 mph
SLX100	58 mph
Impregnator	60 mph
Siloxane WB Concentrate (1:9)	60 mph
Saltguard WB	60 mph



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TEST RESULTS - Protective Water Repellents (cont.):

RESULTS	
"St. Joe"	
Untreated Control	< 40 mph
SLX100	55 mph
Impregnator	57 mph
Paver Enhancer	58 mph
Saltguard WB	59 mph
"Dark Brown"	
Untreated Control	< 40 mph
SLX100	60 mph
Impregnator	60 mph
Paver Enhancer	60 mph
Saltguard WB	60 mph
"Dark Green"	
Untreated Control	< 40 mph
SLX100	60 mph
Impregnator	60 mph
Paver Enhancer	60 mph
Saltguard WB	60 mph
"0-3"	
Untreated Control	< 40 mph
SLX100	58 mph
Impregnator	60 mph
Paver Enhancer	60 mph
Saltguard WB	58 mph
"White"	
Untreated Control	< 40 mph
SLX100	59 mph
Impregnator	60 mph
Paver Enhancer	57 mph
Saltguard WB	59 mph



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TEST RESULTS - Protective Water Repellents (cont.):

RESULTS	
"Bone"	
Untreated Control	< 40 mph
SLX100	55 mph
Impregnator	57 mph
Paver Enhancer	60 mph
Saltguard WB	59 mph
"Light Almond"	
Untreated Control	< 40 mph
SLX100	56 mph
Impregnator	57 mph
Paver Enhancer	59 mph
Saltguard WB	58 mph
"Peach"	
Untreated Control	< 40 mph
SLX100	60 mph
Impregnator	60 mph
Paver Enhancer	60 mph
Saltguard WB	60 mph
"Maize"	
Untreated Control	< 40 mph
SLX100	59 mph
Impregnator	59 mph
Paver Enhancer	57 mph
Saltguard WB	59 mph
"Dark Almond"	
Untreated Control	50 mph
SLX100	60 mph
Impregnator	60 mph
Paver Enhancer	55 mph
Saltguard WB	57 mph



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TEST RESULTS - Protective Water Repellents (cont.):

RESULTS	
"Pink"	
Untreated Control	< 40 mph
SLX100	60 mph
Impregnator	60 mph
Paver Enhancer	58 mph
Saltguard WB	58 mph
"Seacrest Yellow"	
Untreated Control	< 40 mph
SLX100	58 mph
Impregnator	59 mph
Paver Enhancer	60 mph
Saltguard WB	60 mph
"CM32"	
Untreated Control	< 40 mph
SLX100	59 mph
Impregnator	57 mph
Paver Enhancer	60 mph
Saltguard WB	60 mph
"Grey"	
Untreated Control	< 40 mph
SLX100	60 mph
Impregnator	59 mph
Paver Enhancer	60 mph
Saltguard WB	60 mph
"Slate"	
Untreated Control	< 40 mph
SLX100	60 mph
Impregnator	60 mph
Paver Enhancer	60 mph
Saltguard WB	60 mph



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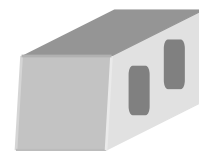
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TEST RESULTS - Protective Water Repellents (cont.):

RESULTS	
"Bayou Blend"	
Untreated Control	< 40 mph
SLX100	58 mph
Impregnator	60 mph
Paver Enhancer	60 mph
Saltguard WB	60 mph
"Desert Fire"	
Untreated Control	< 40 mph
SLX100	59 mph
Impregnator	59 mph
Paver Enhancer	60 mph
Saltguard WB	60 mph



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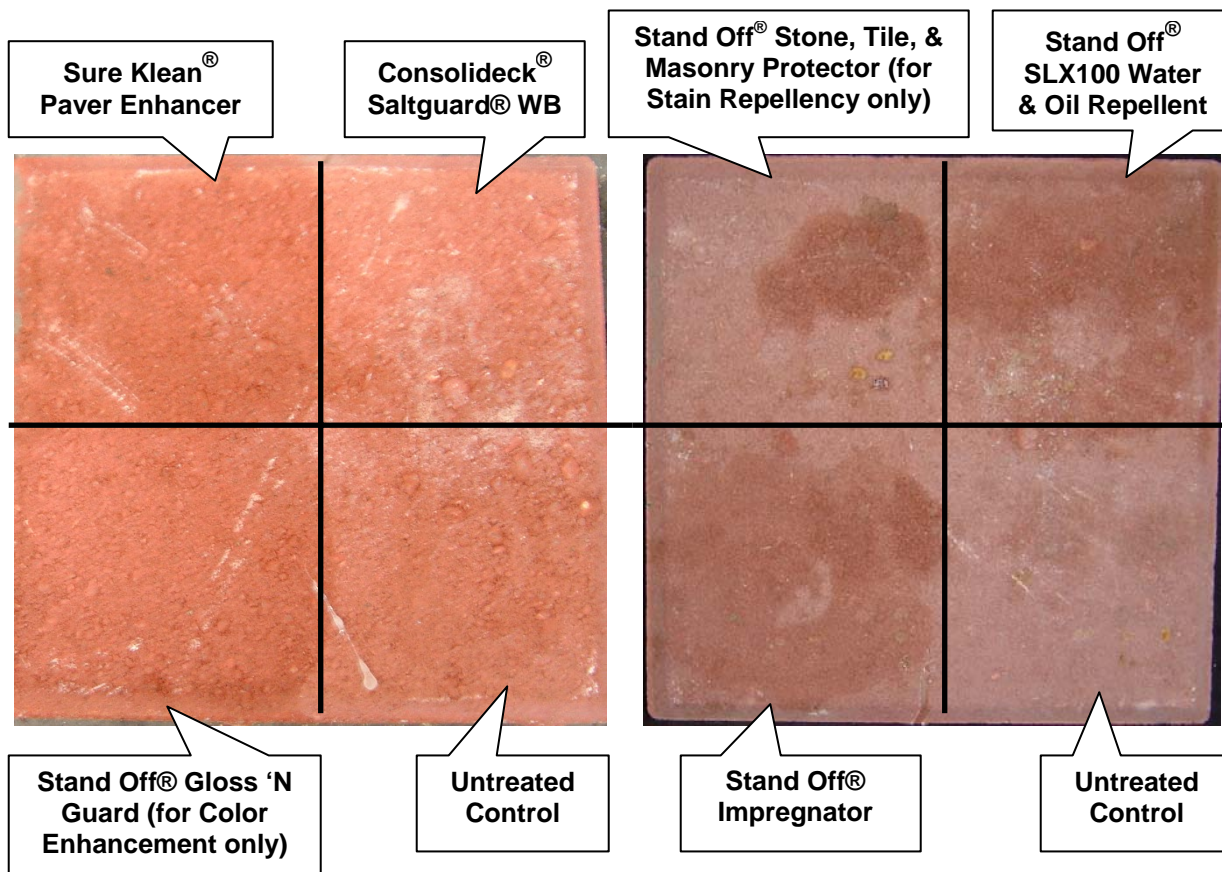


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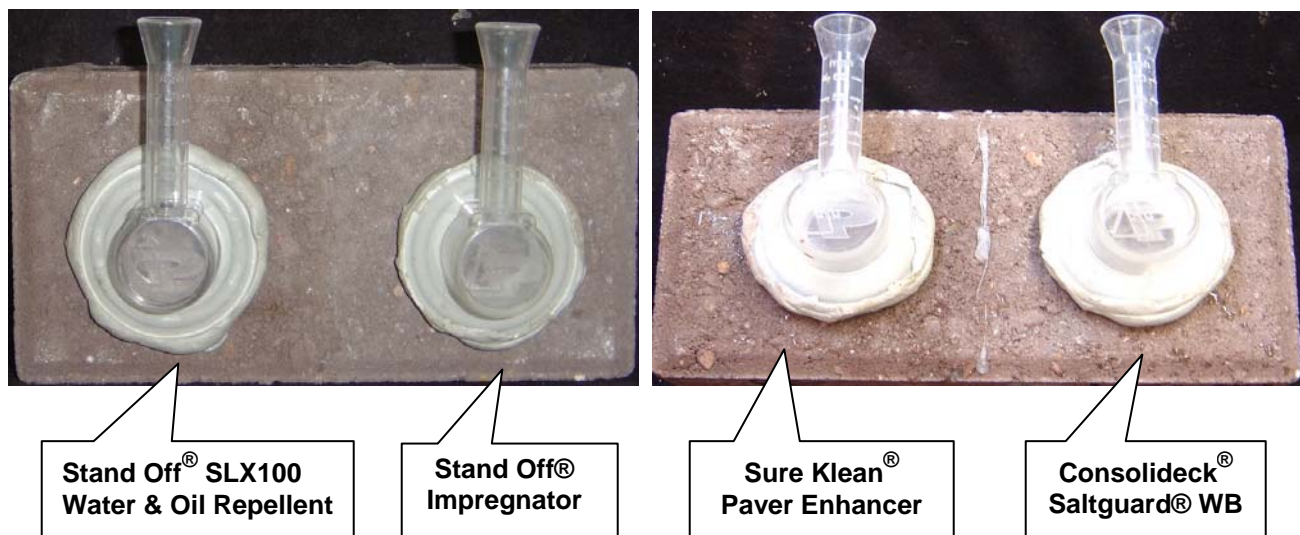
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PHOTOGRAPHS – Protective Water Repellents

“Terra Cotta” With Treatments



“Dark Brown” with RILEM Tubes





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CONCLUSIONS – Protective Water Repellents

Based upon laboratory evaluations, both Sure Klean® Paver Enhancer, Consolideck® Saltguard® WB, Stand Off® SLX100 Water & Oil Repellent, and Stand Off® Impregnator provided superior water repellency to each of the submitted samples. In addition, Sure Klean® Paver Enhancer provided slight to moderate color enhancement to all of the submitted samples.

RECOMMENDATIONS - PROTECTIVE WATER REPELLENTS

Recommendations for water repellency treatment for each type of concrete paver submitted by ConPave (a division of Block USA), Defuniak Springs, FL are provided in the chart below. Recommendations are based on the treatment that proved most effective and can provide water repellency on all types submitted.

Sample	Water Repellents
All Submitted Concrete Pavers	Sure Klean® Paver Enhancer OR Consolideck® Saltguard® WB OR Stand Off® SLX100 Water & Oil Repellent OR Stand Off® Impregnator

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 C – 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-term durability, alkali resistance and superior breathability.

Stand Off® Gloss 'N Guard - A highly durable protective coating for tile, pavers, terrazzo and other polished and unpolished masonry. Gloss 'N Guard dries to a high-gloss finish which enhances the natural beauty of treated surfaces.

TEST METHOD – COLOR ENHANCEMENT

The color enhancing products were applied in accordance with the 2004 PROSOCO, Inc. Product Guide application instructions.



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TEST RESULTS- COLOR ENHANCEMENT

Sample	Sure Klean® Paver Enhancer	Stand Off® Gloss 'N Guard
"Terra Cotta"	3	3
"Charcoal"	3	2
"Buff"	3	2
"Light Brown"	2	3
"Red"	2	1
"St. Joe"	3	3
"Dark Brown"	2	2
"Dark Green"	1	1
"0-3"	2	1
"White"	1	1
"Bone"	2	2
"Light Almond"	1	1
"Peach"	1	1
"Maize"	1	2
"Dark Almond"	2	2
"Pink"	2	2
"Seacrest Yellow"	1	1
"CM32"	3	3
"Grey"	2	2
"Slate"	2	2
"Bayou Blend"	3	3
"Desert Fire"	2	2

Scale: 0- No enhancement; dull

1- Slight Enhancement

2- Moderate Enhancement

3- Significant Enhancement



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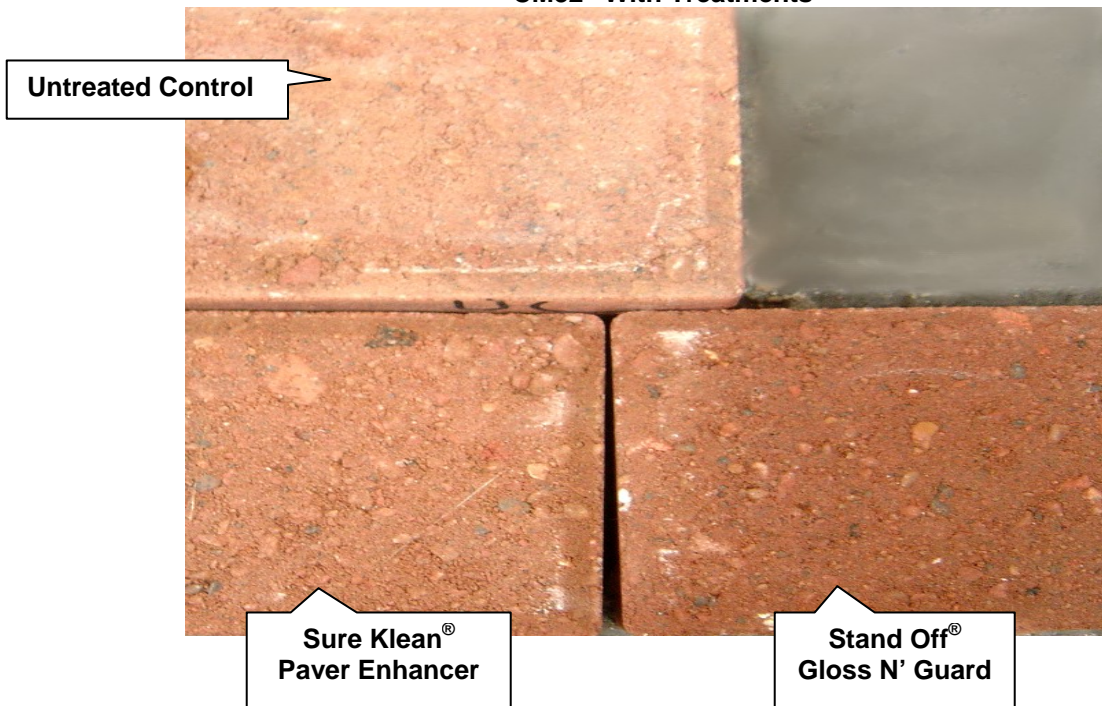


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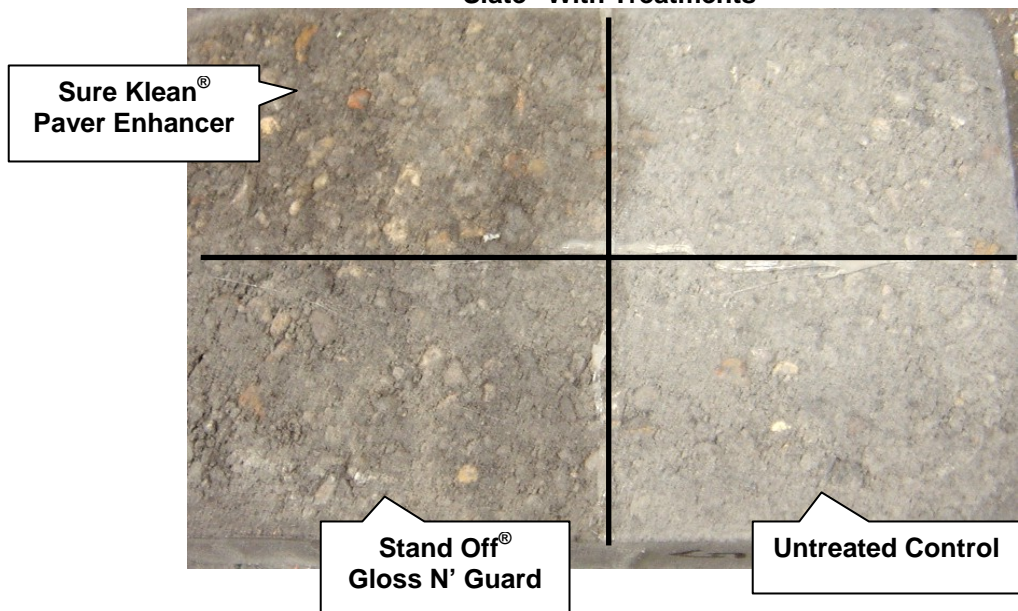
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PHOTOGRAPHS- Color Enhancement

"CM32" With Treatments



"Slate" With Treatments





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RECOMMENDATIONS – Color Enhancement

Recommendations for color enhancement for each type of concrete paver submitted by ConPave (a division of Block USA), Defuniak Springs, FL are provided in the chart below. Recommendations are based on the treatment that proved most effective in providing color enhancement to each sample.

Sample	Color Enhancer
All Submitted Concrete Pavers	Stand Off [®] Gloss 'N Guard OR 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.



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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® 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.

Stand Off® Impregnator – Combines water and oil repellency to prevent staining by waterborne or oily substances. This special system offers invisible protection and low volatility. In addition, Impregnator forms an effective chloride screen that reduces surface erosion and corrosion of rebar in reinforced concrete caused by water and water-carried salts.

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)
~250°F
~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 single saturating brush application.



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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 ($<90^\circ$) 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)

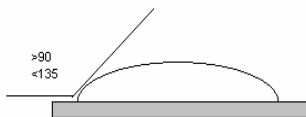
1. No wetting of contact area (no darkening); angle less than 90°



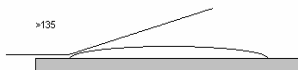
2. Wetting contained to the contact area (slight darkening); angle is less than 90°



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 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.

TEST RESULTS – Surface Beading

“Terra Cotta”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	5	5	5	5	5
STMP	4	-	-	3	3	3	4	4	3
SLX100	3	-	-	3	3	3	3	3	3
Impregnator	3	-	-	3	3	3	3	3	3
“Charcoal”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	5	5	5	5	5
STMP	3	-	-	3	3	3	4	4	4
SLX100	3	-	-	3	3	3	3	3	3
Impregnator	3	-	-	3	3	3	3	3	3
“Buff”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	5	5	5	5	5
STMP	4	-	-	3	3	3	4	4	4
SLX100	2	-	-	3	3	3	3	3	3
Impregnator	2	-	-	3	3	3	3	3	3



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TEST RESULTS – Surface Beading (cont.)

“Light Brown”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	5	5	5	5	5
STMP	4	-	-	4	4	4	4	4	4
SLX100	2	-	-	3	3	3	3	3	3
Impregnator	2	-	-	3	3	3	3	3	3
“Red”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	5	5	5	5	5
STMP	4	-	-	4	4	4	4	4	4
SLX100	3	-	-	3	3	3	3	3	3
Impregnator	3	-	-	3	3	3	3	3	3
“St. Joe”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	5	5	5	5	5
STMP	3	-	-	3	3	3	3	3	3
SLX100	2	-	-	2	2	2	2	2	3
Impregnator	2	-	-	2	3	3	2	2	3
“Dark Brown”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	4	4	4	5	5	5
STMP	3	-	-	3	3	3	3	3	3
SLX100	2	-	-	3	3	3	3	3	3
Impregnator	2	-	-	2	3	3	3	3	3



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TEST RESULTS – Surface Beading (cont.)

“Dark Green”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	5	5	5	5	5
STMP	3	-	-	4	3	3	3	3	3
SLX100	2	-	-	2	2	2	2	2	2
Impregnator	2	-	-	2	2	3	4	4	4
“0-3”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	5	5	5	5	5
STMP	4	-	-	4	4	3	3	3	3
SLX100	3	-	-	3	3	3	3	3	3
Impregnator	3	-	-	3	3	3	3	3	3
“White”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	5	5	5	5	5
STMP	4	-	-	4	4	4	4	4	4
SLX100	2	-	-	2	3	3	3	3	3
Impregnator	2	-	-	3	3	3	3	3	3
“Bone”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	5	5	5	5	5
STMP	3	-	-	3	4	4	3	3	3
SLX100	2	-	-	3	3	3	3	3	3
Impregnator	3	-	-	3	3	3	3	3	3



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TEST RESULTS – Surface Beading (cont.)

“Light Almond”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	5	5	5	5	5
STMP	3	-	-	4	4	4	4	4	4
SLX100	2	-	-	3	3	3	3	3	3
Impregnator	3	-	-	3	3	3	3	3	3
“Peach”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	4	4	5	5	5	5
STMP	4	-	-	3	3	3	3	3	3
SLX100	2	-	-	2	3	3	3	3	3
Impregnator	2	-	-	2	3	3	3	3	2
“Maize”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	5	5	5	5	5
STMP	3	-	-	4	3	3	3	3	3
SLX100	2	-	-	2	2	2	2	2	3
Impregnator	2	-	-	2	2	2	3	3	3
“Dark Almond”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	5	5	5	5	5
STMP	3	-	-	4	4	4	4	4	4
SLX100	2	-	-	3	3	3	3	3	3
Impregnator	3	-	-	3	3	3	3	3	3



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TEST RESULTS – Surface Beading (cont.)

“Pink”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	4	4	5	5	5
STMP	3	-	-	3	3	3	3	3	4
SLX100	2	-	-	2	2	2	2	2	3
Impregnator	2	-	-	2	3	3	3	3	3
“Seacrest Yellow”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	5	5	5	5	5
STMP	4	-	-	3	3	3	3	3	4
SLX100	2	-	-	2	3	3	3	3	3
Impregnator	2	-	-	3	3	3	3	3	3
“CM32”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	5	5	5	5	5
STMP	4	-	-	3	3	4	3	3	3
SLX100	2	-	-	2	2	2	2	2	2
Impregnator	2	-	-	2	3	3	3	3	3
“Grey”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	5	5	5	5	5
STMP	3	-	-	4	4	4	3	3	4
SLX100	2	-	-	2	2	2	2	2	3
Impregnator	2	-	-	2	2	2	2	2	3



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TEST RESULTS – Surface Beading (cont.)

“Slate”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	5	5	5	5	5
STMP	4	-	-	4	4	4	4	4	4
SLX100	2	-	-	3	3	3	3	3	3
Impregnator	3	-	-	3	3	3	3	3	3
“Bayou Blend”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	5	5	5	5	5
STMP	4	-	-	3	4	4	3	3	4
SLX100	3	-	-	3	3	3	3	3	3
Impregnator	3	-	-	3	3	3	3	3	3
“Desert Fire”									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	-	-	5	5	5	5	5	5
STMP	4	-	-	3	3	3	4	4	4
SLX100	2	-	-	3	3	3	3	3	3
Impregnator	2	-	-	3	3	3	3	3	3



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TEST RESULTS – Stain Resistance

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

“Terra Cotta”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	75%	60%	60%	50%	50%	60%	<1%	<1%	50%
4 hour	75%	60%	60%	75%	75%	75%	<1%	<1%	50%
1 hour	90%	70%	70%	75%	75%	75%	<1%	<1%	50%
10 min.	90%	70%	70%	75%	75%	75%	<1%	<1%	50%
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%	80%	80%	80%	80%	80%	75%	75%	75%
4 hour	100%	100%	100%	100%	80%	100%	75%	75%	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® SLX100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	75%	75%	100%	100%	100%	50%	80%	75%
4 hour	100%	80%	80%	100%	100%	100%	50%	80%	100%
1 hour	100%	100%	100%	100%	100%	100%	50%	80%	100%
10 min.	100%	100%	100%	100%	100%	100%	50%	80%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	75%	75%	75%	75%	75%	50%	80%	75%
4 hour	100%	80%	80%	100%	100%	100%	50%	80%	100%
1 hour	100%	100%	100%	100%	100%	100%	50%	80%	100%
10 min.	100%	100%	100%	100%	100%	100%	50%	80%	100%

* Indicates etching occurred due to the acidic nature of the staining agents.



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TEST RESULTS – Stain Resistance (cont.)

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

“Charcoal”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	50%	50%	50%	50%	50%	50%	<1%	<1%	50%
4 hour	60%	60%	60%	60%	60%	60%	<1%	<1%	50%
1 hour	75%	75%	75%	75%	75%	75%	<1%	<1%	50%
10 min.	75%	75%	75%	75%	75%	75%	<1%	<1%	50%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	75%	80%	80%	100%	100%	100%	75%	75%	100%
4 hour	100%	100%	100%	100%	100%	100%	75%	75%	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® SLX100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	75%	75%	100%	100%	100%	50%	50%	100%
4 hour	100%	100%	75%	100%	100%	100%	50%	50%	100%
1 hour	100%	100%	80%	100%	100%	100%	50%	50%	100%
10 min.	100%	100%	100%	100%	100%	100%	50%	50%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	80%	80%	100%	100%	100%	50%	50%	100%
4 hour	100%	100%	100%	100%	100%	100%	50%	50%	100%
1 hour	100%	100%	100%	100%	100%	100%	50%	50%	100%
10 min.	100%	100%	100%	100%	100%	100%	50%	50%	100%

* Indicates etching occurred due to the acidic nature of the staining agents.



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TEST RESULTS – Stain Resistance (cont.)

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

“Buff”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	50%	50%	50%	50%	50%	60%	<1%	<1%	60%
4 hour	60%	60%	60%	75%	75%	75%	<1%	<1%	60%
1 hour	75%	75%	75%	75%	75%	75%	<1%	<1%	75%
10 min.	75%	75%	75%	75%	75%	75%	<1%	<1%	75%
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%	75%	80%	100%	100%	100%	80%	80%	100%
4 hour	100%	75%	80%	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® SLX100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	75%	100%	100%*	100%*	100%	75%	75%	100%
4 hour	100%	100%	100%	100%*	100%*	100%	75%	75%	100%
1 hour	100%	100%	100%	100%*	100%*	100%	75%	75%	100%
10 min.	100%	100%	100%	100%*	100%*	100%	75%	75%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	80%	75%	80%	75%	75%	75%	75%	75%	100%
4 hour	100%	80%	80%	100%	100%	100%	75%	75%	100%
1 hour	100%	100%	100%	100%	100%	100%	75%	75%	100%
10 min.	100%	100%	100%	100%	100%	100%	75%	75%	100%

* Indicates etching occurred due to the acidic nature of the staining agents.



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TEST RESULTS – Stain Resistance (cont.)

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

“Light Brown”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	75%	60%	60%	60%	60%	60%	<1%	<1%	60%
4 hour	75%	60%	60%	60%	60%	60%	<1%	<1%	60%
1 hour	80%	80%	60%	60%	60%	60%	<1%	<1%	75%
10 min.	90%	90%	80%	70%	70%	70%	<1%	<1%	75%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	80%	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® SLX100 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%	50%	50%	80%
4 hour	100%	100%	100%*	100%*	100%*	100%	50%	50%	80%
1 hour	100%	100%	100%*	100%*	100%*	100%	50%	50%	100%
10 min.	100%	100%	100%*	100%*	100%*	100%	50%	50%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	80%	100%*	100%	100%	60%	60%	100%
4 hour	100%	100%	80%	100%*	100%	100%	60%	60%	100%
1 hour	100%	100%	100%	100%*	100%	100%	60%	60%	100%
10 min.	100%	100%	100%	100%*	100%	100%	60%	60%	100%

* Indicates etching occurred due to the acidic nature of the staining agents.



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TEST RESULTS – Stain Resistance (cont.)

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

“Red”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	50%	50%	50%	50%	50%	50%	<1%	<1%	60%
4 hour	60%	60%	60%	60%	60%	60%	<1%	<1%	60%
1 hour	60%	60%	60%	60%	60%	60%	<1%	<1%	60%
10 min.	60%	60%	60%	60%	60%	60%	<1%	<1%	60%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	80%	75%	75%	100%*	100%*	100%	100%	100%	75%
4 hour	100%	80%	80%	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® SLX100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	75%	80%	100%*	100%	100%	75%	75%	75%
4 hour	100%	100%	100%	100%*	100%	100%	75%	75%	75%
1 hour	100%	100%	100%	100%*	100%	100%	75%	75%	100%
10 min.	100%	100%	100%	100%*	100%	100%	75%	75%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	80%	80%	100%*	100%	100%	75%	75%	75%
4 hour	100%	100%	100%	100%*	100%	100%	75%	75%	100%
1 hour	100%	100%	100%	100%*	100%	100%	75%	75%	100%
10 min.	100%	100%	100%	100%*	100%	100%	75%	75%	100%

* Indicates etching occurred due to the acidic nature of the staining agents.



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TEST RESULTS – Stain Resistance (cont.)

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

“St. Joe”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	80%	80%	75%	90%	90%	90%	<1%	<1%	50%
4 hour	80%	90%	75%	90%	90%	90%	<1%	<1%	50%
1 hour	80%	90%	100%	90%	90%	90%	<1%	<1%	50%
10 min.	80%	90%	100%	90%	90%	90%	<1%	<1%	50%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	80%	80%	75%	100%	100%	100%	75%	75%	100%
4 hour	100%	80%	75%	100%	100%	100%	75%	75%	100%
1 hour	100%	100%	100%	100%	100%	100%	80%	80%	100%
10 min.	100%	100%	100%	100%	100%	100%	90%	90%	100%
Stand Off® SLX100 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%	50%	50%	100%
4 hour	100%	100%	100%*	100%*	100%	100%	50%	50%	100%
1 hour	100%	100%	100%*	100%*	100%	100%	50%	50%	100%
10 min.	100%	100%	100%*	100%*	100%	100%	50%	50%	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%	50%	50%	100%
4 hour	100%	100%	100%	100%	100%	100%	50%	50%	100%
1 hour	100%	100%	100%	100%	100%	100%	50%	50%	100%
10 min.	100%	100%	100%	100%	100%	100%	50%	50%	100%

* Indicates etching occurred due to the acidic nature of the staining agents.



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PROSOCO, Inc.

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TEST RESULTS – Stain Resistance (cont.)

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

“Dark Brown”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	75%	75%	75%	75%	75%	75%	<1%	<1%	50%
4 hour	75%	75%	75%	75%	75%	75%	<1%	<1%	50%
1 hour	80%	80%	75%	75%	75%	80%	<1%	<1%	60%
10 min.	80%	80%	75%	75%	75%	80%	<1%	<1%	60%
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%	75%	75%	100%	100%	100%	75%	75%	100%
4 hour	100%	100%	100%	100%	100%	100%	75%	75%	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® SLX100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	80%	80%	100%	100%	100%	100%	50%	50%	60%
4 hour	100%	100%	100%	100%	100%	100%	50%	50%	70%
1 hour	100%	100%	100%	100%	100%	100%	50%	50%	70%
10 min.	100%	100%	100%	100%	100%	100%	50%	50%	70%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	80%	80%	80%	80%	80%	100%	50%	50%	100%
4 hour	100%	100%	100%	100%	100%	100%	50%	50%	100%
1 hour	100%	100%	100%	100%	100%	100%	50%	50%	100%
10 min.	100%	100%	100%	100%	100%	100%	50%	50%	100%

* Indicates etching occurred due to the acidic nature of the staining agents.



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TEST RESULTS – Stain Resistance (cont.)

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

“Dark Green”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	75%	50%	50%	60%	60%	60%	<1%	<1%	40%
4 hour	75%	50%	50%	60%	60%	60%	<1%	<1%	50%
1 hour	75%	75%	75%	60%	60%	60%	<1%	<1%	50%
10 min.	90%	75%	75%	60%	60%	60%	<1%	<1%	50%
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%	80%*	90%	90%	90%	100%	100%	75%
4 hour	100%	100%	100%	90%	90%	90%	100%	100%	75%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	80%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX100 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%	60%	60%	75%
4 hour	100%	100%*	100%*	100%	100%	100%	60%	60%	75%
1 hour	100%	100%*	100%*	100%	100%	100%	60%	60%	80%
10 min.	100%	100%*	100%*	100%	100%	100%	60%	60%	80%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	90%	90%*	100%*	100%	100%	60%	60%	75%
4 hour	100%	100%	100%*	100%*	100%	100%	60%	60%	75%
1 hour	100%	100%	100%*	100%*	100%	100%	60%	60%	80%
10 min.	100%	100%	100%*	100%*	100%	100%	60%	60%	80%

* Indicates etching occurred due to the acidic nature of the staining agents.



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TEST RESULTS – Stain Resistance (cont.)

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

“0-3”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	80%	80%	75%*	75%*	75%	75%	<1%	<1%	60%
4 hour	100%	100%	100%*	80%*	80%	80%	<1%	<1%	75%
1 hour	100%	100%	100%*	100%*	100%	100%	<1%	<1%	75%
10 min.	100%	100%	100%*	100%*	100%	100%	<1%	<1%	75%
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%	75%*	100%*	100%	100%	75%	75%	100%
4 hour	100%	100%	80%*	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® SLX100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	80%	80%	100%	100%	100%	50%	80%	100%
4 hour	100%	100%	100%	100%	100%	100%	50%	80%	100%
1 hour	100%	100%	100%	100%	100%	100%	50%	80%	100%
10 min.	100%	100%	100%	100%	100%	100%	50%	80%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	80%	80%	100%*	100%	100%	50%	50%	100%
4 hour	100%	100%	100%	100%*	100%	100%	50%	50%	100%
1 hour	100%	100%	100%	100%*	100%	100%	50%	50%	100%
10 min.	100%	100%	100%	100%*	100%	100%	50%	50%	100%

* Indicates etching occurred due to the acidic nature of the staining agents.



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TEST RESULTS – Stain Resistance (cont.)

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

“White”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	50%	50%	50%	60%	75%	75%	<1%	<1%	50%
4 hour	50%	50%	50%	75%	75%	75%	<1%	<1%	60%
1 hour	60%	75%	60%	75%	75%	75%	<1%	<1%	75%
10 min.	75%	75%	60%	75%	75%	75%	<1%	<1%	75%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	80%	80%	80%	80%	100%	100%	100%	100%	75%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	75%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	75%	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® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	75%	75%	75%	75%	80%	100%	100%	75%
4 hour	100%	80%	75%	100%	100%	100%	100%	100%	75%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%

* Indicates etching occurred due to the acidic nature of the staining agents.



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PROSOCO, Inc.

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TEST RESULTS – Stain Resistance (cont.)

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

“Bone”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	75%	75%	75%	75%	75%	75%	75%	75%
4 hour	100%	75%	75%	75%	75%	75%	75%	75%	80%
1 hour	100%	80%	80%	80%	80%	80%	75%	75%	100%
10 min.	100%	80%	80%	80%	80%	80%	75%	75%	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%	75%	75%	100%	100%	100%	100%	100%	80%
4 hour	100%	80%	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® SLX100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	75%	75%	80%	80%	80%	100%	100%	75%
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%	75%	75%	80%	80%	80%	100%	100%	80%
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%

* Indicates etching occurred due to the acidic nature of the staining agents.



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TEST RESULTS – Stain Resistance (cont.)

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

“Light Almond”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	75%	60%	60%	75%	50%	60%	<1%	<1%	50%
4 hour	75%	60%	60%	75%	75%	75%	<1%	<1%	50%
1 hour	80%	80%	80%	75%	75%	75%	<1%	<1%	50%
10 min.	80%	80%	80%	75%	75%	75%	<1%	<1%	50%
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%	80%	80%	80%	80%	80%	75%	75%	75%
4 hour	100%	100%	100%	100%	80%	100%	75%	75%	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® SLX100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	75%	75%	100%	100%	100%	75%	75%	75%
4 hour	100%	80%	80%	100%	100%	100%	75%	75%	75%
1 hour	100%	100%	100%	100%	100%	100%	75%	75%	100%
10 min.	100%	100%	100%	100%	100%	100%	75%	75%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	75%	75%	75%	75%	75%	100%	100%	75%
4 hour	100%	80%	80%	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%

* Indicates etching occurred due to the acidic nature of the staining agents.



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PROSOCO, Inc.

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TEST RESULTS – Stain Resistance (cont.)

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

“Peach”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	60%	60%	50%*	80%	80%	80%	<1%	<1%	50%
4 hour	60%	60%	50%*	80%	80%	80%	<1%	<1%	50%
1 hour	60%	60%	50%*	80%	80%	80%	<1%	<1%	50%
10 min.	60%	60%	50%*	80%	80%	80%	<1%	<1%	50%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	75%	80%	75%	100%	100%	100%	75%	75%	60%
4 hour	80%	80%	75%	100%	100%	100%	80%	80%	75%
1 hour	80%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	80%	100%	100%	100%	100%	100%	100%	100%	100%
Stand Off® SLX100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%*	100%*	75%*	100%*	100%*	100%*	100%	100%	75%
4 hour	100%*	100%*	100%*	100%*	100%*	100%*	100%	100%	75%
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%*	75%*	100%*	100%*	100%*	100%	100%	75%
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%

* Indicates etching occurred due to the acidic nature of the staining agents.



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TEST RESULTS – Stain Resistance (cont.)

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

“Maize”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	75%	60%	60%	50%	50%	60%	<1%	<1%	50%
4 hour	75%	60%	60%	75%	75%	75%	<1%	<1%	50%
1 hour	90%	70%	70%	75%	75%	75%	<1%	<1%	50%
10 min.	90%	70%	70%	75%	75%	75%	<1%	<1%	50%
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%	80%	80%	80%	80%	80%	75%	75%	75%
4 hour	100%	100%	100%	100%	80%	100%	75%	75%	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® SLX100 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%

* Indicates etching occurred due to the acidic nature of the staining agents.



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TEST RESULTS – Stain Resistance (cont.)

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

“Dark Almond”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	50%	50%	50%	50%	50%	50%	<1%	<1%	50%
4 hour	50%	50%	50%	50%	50%	50%	<1%	<1%	50%
1 hour	50%	50%	50%	50%	50%	50%	<1%	<1%	50%
10 min.	50%	50%	50%	50%	50%	50%	<1%	<1%	50%
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%	80%	80%	100%*	100%	80%	100%	100%	75%
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® SLX100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	75%	75%	100%*	100%*	100%	75%	75%	75%
4 hour	100%	80%	80%	100%*	100%*	100%	75%	75%	100%
1 hour	100%	100%	100%	100%*	100%*	100%	75%	75%	100%
10 min.	100%	100%	100%	100%*	100%*	100%	75%	75%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	75%	75%	75%	75%	75%	80%	80%	75%
4 hour	100%	80%	80%	100%	100%	100%	80%	80%	100%
1 hour	100%	100%	100%	100%	100%	100%	80%	80%	100%
10 min.	100%	100%	100%	100%	100%	100%	80%	80%	100%

* Indicates etching occurred due to the acidic nature of the staining agents.



PALLET TAG PROGRAM LABORATORY REPORT



PROSOCO, Inc.

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TEST RESULTS – Stain Resistance (cont.)

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

“Pink”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	75%	60%	60%	50%	50%	60%	<1%	<1%	50%
4 hour	75%	60%	60%	75%	75%	75%	<1%	<1%	50%
1 hour	90%	70%	70%	75%	75%	75%	<1%	<1%	50%
10 min.	90%	70%	70%	75%	75%	75%	<1%	<1%	50%
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%	80%	100%	100%	100%	100%	100%	75%
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® SLX100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	75%	100%	100%	100%	100%	100%	50%
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%

* Indicates etching occurred due to the acidic nature of the staining agents.



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TEST RESULTS – Stain Resistance (cont.)

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

“Seacrest Yellow”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	75%	60%	60%	50%	50%	60%	<1%	<1%	50%
4 hour	75%	60%	60%	75%	75%	75%	<1%	<1%	50%
1 hour	90%	70%	70%	75%	75%	75%	<1%	<1%	50%
10 min.	90%	70%	70%	75%	75%	75%	<1%	<1%	50%
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%	80%	80%	80%	80%	80%	75%	75%	75%
4 hour	100%	100%	100%	100%	80%	100%	75%	75%	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® SLX100 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%

* Indicates etching occurred due to the acidic nature of the staining agents.



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TEST RESULTS – Stain Resistance (cont.)

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

“CM32”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	75%	60%	60%	50%	50%	60%	<1%	<1%	50%
4 hour	75%	60%	60%	75%	75%	75%	<1%	<1%	50%
1 hour	90%	70%	70%	75%	75%	75%	<1%	<1%	50%
10 min.	90%	70%	70%	75%	75%	75%	<1%	<1%	50%
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%	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® SLX100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	75%	100%*	100%*	100%	100%	100%	100%
4 hour	100%	100%	80%	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%	80%	100%	100%*	100%	100%	100%	100%	100%
4 hour	100%	80%	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%

* Indicates etching occurred due to the acidic nature of the staining agents.



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TEST RESULTS – Stain Resistance (cont.)

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

“Grey”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	75%	60%	60%	50%	50%	60%	<1%	<1%	50%
4 hour	75%	60%	60%	75%	75%	75%	<1%	<1%	50%
1 hour	90%	70%	70%	75%	75%	75%	<1%	<1%	50%
10 min.	90%	70%	70%	75%	75%	75%	<1%	<1%	50%
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%	75%	75%	75%
4 hour	100%	100%	100%	100%	100%	100%	75%	75%	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® SLX100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	75%	75%	100%	100%	100%	20%	20%	75%
4 hour	100%	80%	80%	100%	100%	100%	20%	20%	100%
1 hour	100%	100%	100%	100%	100%	100%	20%	20%	100%
10 min.	100%	100%	100%	100%	100%	100%	20%	20%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	75%	75%	75%	75%	75%	50%	50%	75%
4 hour	100%	80%	80%	100%	100%	100%	50%	50%	100%
1 hour	100%	100%	100%	100%	100%	100%	50%	50%	100%
10 min.	100%	100%	100%	100%	100%	100%	50%	50%	100%

* Indicates etching occurred due to the acidic nature of the staining agents.



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TEST RESULTS – Stain Resistance (cont.)

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

“Slate”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	50%	50%	50%	75%	75%	75%	<1%	<1%	50%
4 hour	75%	75%	75%	75%	75%	75%	<1%	<1%	50%
1 hour	75%	75%	75%	75%	75%	75%	<1%	<1%	50%
10 min.	75%	75%	75%	75%	75%	75%	<1%	<1%	50%
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%	75%	80%	100%	100%	100%	75%	75%	100%
4 hour	100%	100%	100%	100%	100%	100%	75%	75%	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® SLX100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	75%	100%	100%	100%	100%	75%	75%	100%
4 hour	100%	100%	100%	100%	100%	100%	75%	75%	100%
1 hour	100%	100%	100%	100%	100%	100%	75%	75%	100%
10 min.	100%	100%	100%	100%	100%	100%	75%	75%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	80%	75%	100%	100%	100%	100%	50%	50%	100%
4 hour	100%	100%	100%	100%	100%	100%	50%	50%	100%
1 hour	100%	100%	100%	100%	100%	100%	50%	50%	100%
10 min.	100%	100%	100%	100%	100%	100%	50%	50%	100%

* Indicates etching occurred due to the acidic nature of the staining agents.



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TEST RESULTS – Stain Resistance (cont.)

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

“Bayou Blend”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	75%	75%	75%*	60%*	60%	60%	<1%	<1%	60%
4 hour	75%	80%	75%*	75%*	75%	75%	<1%	<1%	75%
1 hour	75%	80%	75%*	75%*	75%	75%	<1%	<1%	75%
10 min.	75%	80%	75%*	75%*	75%	75%	<1%	<1%	75%
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%	80%	75%	100%*	80%	80%	100%	100%	80%
4 hour	100%	80%	80%	100%*	80%	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® SLX100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	75%	75%	75%	100%	100%	75%	75%	75%
4 hour	100%	80%	80%	100%	100%	100%	75%	75%	100%
1 hour	100%	100%	100%	100%	100%	100%	75%	75%	100%
10 min.	100%	100%	100%	100%	100%	100%	75%	75%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	75%	75%	80%	80%	80%	75%	75%	80%
4 hour	100%	100%	100%	100%	100%	100%	75%	75%	80%
1 hour	100%	100%	100%	100%	100%	100%	75%	75%	80%
10 min.	100%	100%	100%	100%	100%	100%	75%	75%	80%

* Indicates etching occurred due to the acidic nature of the staining agents.



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TEST RESULTS – Stain Resistance (cont.)

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

“Desert Fire”

Untreated Control									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	70%	50%	60%	75%	75%	75%	<1%	<1%	50%
4 hour	70%	60%	60%	75%	75%	75%	<1%	<1%	50%
1 hour	80%	80%	70%	75%	75%	75%	<1%	<1%	50%
10 min.	80%	80%	70%	80%	75%	75%	<1%	<1%	50%
Stand Off® Stone, Tile, & Masonry Protector									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	80%	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® SLX100 Water & Oil Repellent									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	80%	90%	100%	100%	100%	75%	75%	75%
4 hour	100%	100%	100%	100%	100%	100%	75%	75%	100%
1 hour	100%	100%	100%	100%	100%	100%	75%	75%	100%
10 min.	100%	100%	100%	100%	100%	100%	75%	75%	100%
Stand Off® Impregnator									
	Coca Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	75%	75%	75%	75%	100%	100%	75%	75%	100%
4 hour	100%	80%	80%	100%	100%	100%	75%	75%	100%
1 hour	100%	100%	100%	100%	100%	100%	75%	75%	100%
10 min.	100%	100%	100%	100%	100%	100%	75%	75%	100%

* Indicates etching occurred due to the acidic nature of the staining agents.



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PHOTOGRAPHS- STAIN RESULTS

“St. Joe”- Stains Applied

Stand Off®
Stone, Tile, &
Masonry
Protector

Stand Off® SLX 100
Water & Oil Repellent

Stand Off®
Impregnator

Untreated Control



“St. Joe”- Stains removed

Stand Off®
Stone, Tile,
& Masonry
Protector

Stand Off®
SLX 100
Water & Oil
Repellent

Stand Off®
Impregnator

Untreated Control





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CONCLUSIONS – Stain Resistance

Based upon laboratory evaluations, all of the treatments evaluated were effective in repelling the staining agents on all of the submitted concrete pavers. In addition, all of the treatments improved the surface beading of the submitted pavers.

RECOMMENDATIONS – Stain Resistance

Recommendations for stain resistance treatment for each type of concrete paver submitted by ConPave (a division of Block USA), Defuniak Springs, FL 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 concrete pavers	Stand Off® Stone, Tile & Masonry Protector OR Stand Off® SLX 100 Water & Oil Repellent OR Stand Off® Impregnator	Enviro Klean® 2010 All Surface Cleaner (1:10)

Courtney A. Murdock
Project Testing Coordinator

CAM/



Laboratory Report

Pallet Tag Program Evaluation

**ConPave (A Division of Block USA)
Defuniak Springs, FL**

Project No. 0407-14 PTP

Prepared For:

**Rusty and Sue Craig
ConPave
28 Gene Hurley Rd
Defuniak Springs, FL 32435**

Prepared By:



***PROSOCO, Inc.
August 2004***