

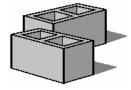
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#### **ATTACHMENTS**

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





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#### **Submitted Information**

For: Michael Trotta cc: John Bourne

Subject: Masolite

Fort Wayne, IN

Date:

**Project:** 0505-12 PTP

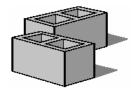
Samples Submitted: 6 types of integrally colored split-face CMU's: 5 split-face and 1 ground-face; 9 types of

split-face retaining walls and 6 types of concrete pavers.

Sample	Name	Color	Integral Water Repellent	Size
Split-face CMU	"B.U."	Brown	Unknown	8" x 16" x 4"
Split-face CMU	"BHWT"	Beige/White	Unknown	8" x 16" x 4"
Split-face CMU	"Buff LW"	Beige	Unknown	8" x 16" x 6"
Split-face CMU	"Natural LW"	Gray	Unknown	8" x 16" x 12"
Split-face CMU	"Natural NW"	Gray	Unknown	8" x 16" x 4"
Ground-face CMU	"Buff NW"	Beige	Unknown	8" x 16" x 4"
Split-face Retaining Wall	"Edinburg Celtik Wall SRW"	Red/Charcoal	Unknown	4" x 16" x 12"
Split-face Retaining Wall	"Essex Celtik Wall SRW"	Red/Tan	Unknown	4" x 16" x 12"
Split-face Retaining Wall	"Sheffield Celtik Wall SRW"	Tan/Charcoal	Unknown	4" x 6" x 12"
Split-face Retaining Wall	"Beige Keystone Compac SRW"	Beige	Unknown	6" x 24" x 16"
Split-face Retaining Wall	"Grey Keystone Compac SRW"	Gray	Unknown	6" x 24" x 16"
Split-face Retaining Wall	"Buff Maso-lok SRW"	Dark Tan	Unknown	6" x 24" x 16"
Split-face Retaining Wall	"Brown Versa-lok STD SRW"	Brown	Unknown	6" x 24" x 16"
Split-face Retaining Wall	"Grey Versa-lok STD SRW"	Gray	Unknown	6" x 24" x 16"
Split-face Retaining Wall	"Tan Versa-lok Tumble SRW"	Tan	Unknown	6" x 24" x 16"
Concrete Paver	"B. Beige Bergerac Rect"	Tan/Charcoal	Unknown	8" x 6" x 2"
Concrete Paver	"LaPorte C. Cobble SQ"	Tan/Charcoal	Unknown	6" x 6" x 2"
Concrete Paver	"F. Beige DCM Rect"	Tan/Charcoal	Unknown	8" x 6" x 2"
Concrete Paver	"S. Grey DCM SQ"	Gray	Unknown	6" x 6" x 2"
Concrete Paver	"Charcoal Holland"	Charcoal	Unknown	4" x 8" x 2"
Concrete Paver	"Rose Holland"	Red	Unknown	4" x 8" x 2"

Submitted by: Michael Trotta





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#### **Purpose of Testing**

One type of ground-face and five types of split-face integrally colored CMU's, nine types of split-face retaining walls and six types of concrete pavers, all with large, small and fine aggregate were submitted for testing using PROSOCO, Inc.'s new construction cleaning products, water repellents, graffiti control products, stain repellents and color enhancement products.

**New Construction Cleaning** – Sure Klean<sup>®</sup> Custom Masonry Cleaner and Sure Klean<sup>®</sup> Burnished Custom Masonry Cleaner were evaluated to determine the optimal concentration of cleaner for removal of laboratory applied mortar which also leaves the external surface looking most like the natural through-body color of the CMU. Sure Klean<sup>®</sup> Custom Masonry Cleaner and Sure Klean<sup>®</sup> Burnished Custom Masonry Cleaner were also evaluated to determine the optimal concentration of cleaner that leaves the external surface looking most like the natural through-body color of the submitted retaining walls and concrete pavers.

To simulate new construction soiling all concrete masonry units (CMU's) 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 CMU and filled with a wet mixture of Type S mortar. The wet, mortar-filled cylinder is allowed to remain in contact with the CMU for 10 minutes before removal.

Heavy deposits of mortar are removed with dry scraping after 24 hours. Prepared cleaning solutions are then evaluated for their effectiveness in removing residual Type S mortar staining after 3 days, 7 days, and 14 days of curing.

Color uniformity was evaluated by comparing aggregate exposure and surface pigment alternation/removal of each cleaned surface compared to the natural through-body color of the CMU, retaining wall or concrete paver.

<u>Aggregate Exposure</u> is the visual examination comparing aggregate exposure of the interior, through-body section of sample to surfaces cleaned with selected product(s) at given dilutions.

<u>Surface Pigment Alteration/Removal</u> is the visual examination comparing the pigmentation of the interior, throughbody section of the sample to surfaces cleaned with selected product(s) at given dilutions.

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

0 – **Worst** match to through-body

3 – **Good** match to through-body

1 – **Poor** match to through-body

4 – **Best** match to through-body

2 - Fair match to through-body

#### NOTE: When cleaning integrally colored CMU's, retaining walls and concrete pavers.

Integrally colored concrete masonry units (CMU's), retaining walls and concrete pavers frequently have high amounts of pigments concentrated on the surface of the cured concrete unit. Variation of surface pigment concentrations from one sample to the next creates a blotchy appearance in the completed wall. Allowed to remain on the surface of the sample, the weakly bound pigment will weather and streak, further detracting from the appearance of the completed project.

In addition to removing excess mortar and construction related soiling, the goal of any cleaning operation undertaken on an integrally colored substrate should include removal of unnaturally high concentrations of surface pigment. By revealing the natural through-body color on the integrally colored unit, the overall color uniformity and weathering resistance of the completed project is improved.

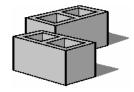
**Protective Water Repellents** – Sure Klean<sup>®</sup> Custom Masonry Sealer and Sure Klean<sup>®</sup> Weather Seal Siloxane WB Concentrate were evaluated for their ability to provide water repellency to the submitted CMU's and retaining walls. Sure Klean<sup>®</sup> Paver Enhancer, Consolideck<sup>®</sup> Saltguard<sup>®</sup> WB and Stand Off<sup>®</sup> SLX100 Water & Oil Repellent were evaluated for their ability to provide water repellency to the submitted concrete pavers.

**Graffiti Control** – Sure Klean<sup>®</sup> Custom Masonry Sealer was evaluated for its ability to control graffiti on the submitted samples. Sure Klean<sup>®</sup> Fast Acting Stripper and Defacer Eraser<sup>®</sup> Graffiti Wipe were evaluated for their ability to remove graffiti from the submitted CMU's and retaining walls.

**Stain Repellency** – Stand Off<sup>®</sup> Stone, Tile & Masonry Protector (STMP) and Stand Off<sup>®</sup> SLX100 Water & Oil Repellent were evaluated on the submitted concrete pavers for their ability to repel stains.

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





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#### **Products Evaluated**

#### **Products Evaluated for New Construction Cleaning**

Sample	Product	Dilution
All Submitted Split-face CMU's	Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:2, 1:4, 1:6
All Submitted Ground-face CMU's	Sure Klean <sup>®</sup> Burnished Custom Masonry Cleaner	1:2, 1:3
All Submitted Split-face Retaining Walls	Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:2, 1:4, 1:6
(Color Uniformity Only)	Sure Klean <sup>®</sup> Burnished Custom Masonry Cleaner	1:2, 1:3
All Submitted Concrete Pavers	Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:6
(Color Uniformity Only)	Sure Klean <sup>®</sup> Burnished Custom Masonry Cleaner	1:2, 1:3

#### Water Repellent Products Evaluated

Sample	Product	Dilution
All Submitted CMU's and	Sure Klean <sup>®</sup> Custom Masonry Sealer	Concentrate
Retaining Walls	Sure Klean <sup>®</sup> Weather Seal Siloxane WB Concentrate	1:9, 1:14
	Sure Klean <sup>®</sup> Paver Enhancer	Concentrate
All Submitted Concrete Pavers	Consolideck <sup>®</sup> Saltguard <sup>®</sup> WB	Concentrate
	Stand Off <sup>®</sup> SLX100 Water & Oil Repellent	Concentrate

#### **Graffiti Control Products Evaluated**

Sample	Product	Dilution
All Submitted CMU's and Retaining Walls	Sure Klean <sup>®</sup> Custom Masonry Sealer	Concentrate

#### **Graffiti Removal Products Evaluated**

Sample	Product	Dilution
All Submitted CMU's and	Sure Klean <sup>®</sup> Fast Acting Stripper	Concentrate
Retaining Walls	Defacer Eraser <sup>®</sup> Graffiti Wipe	Concentrate

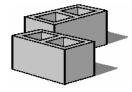
#### **Stain Repellent Products Evaluated**

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

#### **Color Enhancement Products Evaluated**

Sample	Product	Dilution
All Submitted Concrete Pavers	Sure Klean <sup>®</sup> Paver Enhancer	Concentrate
All Submitted Concrete Favers	Stand Off <sup>®</sup> Gloss 'N Guard	Concentrate





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#### **New Construction Cleaning**

These cleaning trials were conducted to determine the optimal cleaning/cure time combination to most efficiently remove Type S mortar from the submitted CMU's while providing the best color uniformity when compared to the through-body color of the CMU's. Cleaning trials were also conducted to determine the cleaner and dilution that gives the best color uniformity when compared to the through-body color of the retaining walls and concrete pavers.

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

A visual examination was also made to determine the optimal dilution of the tested cleaners that provide the best color uniformity when compared to the through-body color of the CMU's, retaining walls and concrete pavers.

#### **Description of Products Evaluated - New Construction Cleaning**

**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.

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

#### **Test Method** – New Construction Cleaning

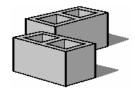
Dilution ratios refer to mixtures of parts concentrated cleaner: parts fresh water. Chemical cleaners were evaluated using the following procedure:

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

- 4. Reapply the product and moderately agitate with a brush.
- 5. Pressure rinse thoroughly.\*
- 6. Allow the sample to dry for at least 18 hours and visually examine.
- 7. Break the sample in half and compare the through-body surfaces to the cleaned surfaces for the best match.

\*Pressure Rinsing Equipment – Masonry washing equipment generating approximately 1300 psi with a water flow rate of 1.9 gallons per minute delivered through a 45 degree fan spray tip was used for rinsing.





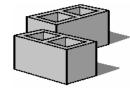
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#### **Test Results** – New Construction Cleaning

% removal

"B.U." Split-fa	ce CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:6	100%	100%	100%
"BHWT" Split-f	ace CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:6	100%	100%	100%
"Buff LW" Split-	face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:6	100%	100%	100%
"Natural LW" Spli	it-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:6	100%	100%	100%
"Natural NW" Spl	it-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:4	100%	100%	100%
Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:6	100%	100%	100%
"Buff NW" Groun	d-face CMU			
Product	Dilution	3 day	7 day	14 day
Sure Klean <sup>®</sup> Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Burnished Custom Masonry Cleaner	1:3	100%	100%	100%





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#### **Test Results** – Color Uniformity

Product Dilution re Klean® Custom Masonry Cleaner 1:2 re Klean® Custom Masonry Cleaner 1:4 re Klean® Custom Masonry Cleaner 1:6	Exposure   Alteration/Removal   1:2
re Klean® Custom Masonry Cleaner 1:2 re Klean® Custom Masonry Cleaner 1:4 re Klean® Custom Masonry Cleaner 1:6 bstrate: Split-face CMU Pigm Product Dilution re Klean® Custom Masonry Cleaner 1:2 re Klean® Custom Masonry Cleaner 1:2 re Klean® Custom Masonry Cleaner 1:4	Exposure   Alteration/Removal   1:2
re Klean® Custom Masonry Cleaner 1:4 re Klean® Custom Masonry Cleaner 1:6 bstrate: Split-face CMU Pigm Product Dilution re Klean® Custom Masonry Cleaner 1:2 re Klean® Custom Masonry Cleaner 1:4	1:4         4         4           1:6         4         4           gment Color: "BHWT"           ution         Aggregate Exposure Exposure Alteration/Removal           1:2         4         4
re Klean <sup>®</sup> Custom Masonry Cleaner 1:6  bstrate: Split-face CMU Pigm  Product Dilution  re Klean <sup>®</sup> Custom Masonry Cleaner 1:2  re Klean <sup>®</sup> Custom Masonry Cleaner 1:4	1:6 4 4  gment Color: "BHWT"  ution Aggregate Exposure Alteration/Removal  1:2 4 4
Product Dilution Product 1:2 re Klean® Custom Masonry Cleaner 1:4	ution Aggregate Exposure Surface Pigment Alteration/Removal
Product Dilution re Klean® Custom Masonry Cleaner 1:2 re Klean® Custom Masonry Cleaner 1:4	ution Aggregate Surface Pigment Alteration/Removal
re Klean <sup>®</sup> Custom Masonry Cleaner 1:2 re Klean <sup>®</sup> Custom Masonry Cleaner 1:4	Exposure Alteration/Removal
re Klean <sup>®</sup> Custom Masonry Cleaner 1:4	
•	:4 4 4
re Klean <sup>®</sup> Custom Masonry Cleaner 1:6	
	1:6 4 4
bstrate: Split-face CMU Pigm	gment Color: "Buff LW"
Product Dilution	ution Aggregate Surface Pigment Exposure Alteration/Removal
re Klean <sup>®</sup> Custom Masonry Cleaner 1:2	1:2 4 4
re Klean <sup>®</sup> Custom Masonry Cleaner 1:4	1:4 4 4
re Klean <sup>®</sup> Custom Masonry Cleaner 1:6	1:6 4 4
bstrate: Split-face CMU Pigm	gment Color: "Natural LW"
Product Dilution	ution Aggregate Surface Pigment Exposure Alteration/Removal
re Klean <sup>®</sup> Custom Masonry Cleaner 1:2	1:2 4 4
re Klean <sup>®</sup> Custom Masonry Cleaner 1:4	1:4 4 4
re Klean <sup>®</sup> Custom Masonry Cleaner 1:6	1:6 4 4
bstrate: Split-face CMU Pigm	gment Color: "Natural NW"
Product Dilution	ution Aggregate Surface Pigment Alteration/Removal
re Klean <sup>®</sup> Custom Masonry Cleaner 1:2	1:2 4 4
re Klean <sup>®</sup> Custom Masonry Cleaner 1:4	1:4 4 4
re Klean <sup>®</sup> Custom Masonry Cleaner 1:6	1:6 4 4
bstrate: Ground-face CMU Pigm	gment Color: "Buff NW"
Product Dilution	ution Aggregate Surface Pigment Exposure Alteration/Removal
re Klean <sup>®</sup> Burnished Custom Masonry Cleaner 1:2	Exposure / illeration/rtemoval
re Klean <sup>®</sup> Burnished Custom Masonry Cleaner 1:3	·

Scale used for reporting results of both categories

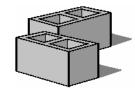
0 – **Worst** match to through-body

3 – **Good** match to through-body

1 – **Poor** match to through-body

4 – **Best** match to through-body





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#### **Test Results** - Color Uniformity (Continued)

Substrate: Split-face Retaining Wall	Pigment Color: "Edinburg Celtik Wall SRW"			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
Sure Klean® Custom Masonry Cleaner	1:2	4	4	
Sure Klean® Custom Masonry Cleaner	1:4	4	4	
Sure Klean® Custom Masonry Cleaner	1:6	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:2	3	3	
Sure Klean® Burnished Custom Masonry Cleaner	1:3	3	3	
Substrate: Split-face Retaining Wall	Pigment	: Color: "Essex Celtil	k Wall SRW"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
Sure Klean® Custom Masonry Cleaner	1:2	4	4	
Sure Klean® Custom Masonry Cleaner	1:4	4	4	
Sure Klean® Custom Masonry Cleaner	1:6	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:2	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:3	4	4	
Substrate: Split-face Retaining Wall	Pigment	igment Color: "Sheffield Celtik Wall SRW"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
Sure Klean® Custom Masonry Cleaner	1:2	4	4	
Sure Klean® Custom Masonry Cleaner	1:4	4	4	
Sure Klean® Custom Masonry Cleaner	1:6	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:2	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:3	4	4	
Substrate: Split-face Retaining Wall	Pigment	: Color: "Beige Keyst	tone Compac SRW"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
0		4	4	
Sure Klean Custom Masonry Cleaner	1:2	4	, T	
Sure Klean <sup>®</sup> Custom Masonry Cleaner Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:2 1:4	4	4	
Sure Klean® Custom Masonry Cleaner Sure Klean® Custom Masonry Cleaner Sure Klean® Custom Masonry Cleaner		·	-	
Sure Klean® Custom Masonry Cleaner	1:4	4	4	

Scale used for reporting results of both categories

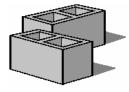
0 - Worst match to through-body

3 - Good match to through-body

1 – **Poor** match to through-body

4 - **Best** match to through-body





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#### **Test Results** - Color Uniformity (Continued)

Substrate: Split-face Retaining Wall	Pigment Color: "Grey Keystone Compac SRW"			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
Sure Klean® Custom Masonry Cleaner	1:2	4	4	
Sure Klean® Custom Masonry Cleaner	1:4	4	4	
Sure Klean® Custom Masonry Cleaner	1:6	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:2	3	3	
Sure Klean® Burnished Custom Masonry Cleaner	1:3	3	3	
Substrate: Split-face Retaining Wall	Pigment	: Color: "Buff Maso-lo	ok SRW"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
Sure Klean® Custom Masonry Cleaner	1:2	4	4	
Sure Klean® Custom Masonry Cleaner	1:4	4	4	
Sure Klean® Custom Masonry Cleaner	1:6	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:2	3	3	
Sure Klean® Burnished Custom Masonry Cleaner	1:3	3	3	
Substrate: Split-face Retaining Wall	Pigment	igment Color: "Brown Versa-lok STD SRW"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
			Alteration/Itemoval	
Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:2	4	4	
Sure Klean <sup>®</sup> Custom Masonry Cleaner Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:2 1:4	4		
		·	4	
Sure Klean <sup>®</sup> Custom Masonry Cleaner Sure Klean <sup>®</sup> Custom Masonry Cleaner Sure Klean <sup>®</sup> Burnished Custom Masonry Cleaner	1:4	4	4 4	
Sure Klean <sup>®</sup> Custom Masonry Cleaner Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:4 1:6	4	4 4 4	
Sure Klean <sup>®</sup> Custom Masonry Cleaner Sure Klean <sup>®</sup> Custom Masonry Cleaner Sure Klean <sup>®</sup> Burnished Custom Masonry Cleaner	1:4 1:6 1:2 1:3	4 4 4	4 4 4 4 4	
Sure Klean <sup>®</sup> Custom Masonry Cleaner Sure Klean <sup>®</sup> Custom Masonry Cleaner Sure Klean <sup>®</sup> Burnished Custom Masonry Cleaner Sure Klean <sup>®</sup> Burnished Custom Masonry Cleaner	1:4 1:6 1:2 1:3	4 4 4	4 4 4 4 4	
Sure Klean <sup>®</sup> Custom Masonry Cleaner Sure Klean <sup>®</sup> Custom Masonry Cleaner Sure Klean <sup>®</sup> Burnished Custom Masonry Cleaner Sure Klean <sup>®</sup> Burnished Custom Masonry Cleaner Substrate: Split-face Retaining Wall	1:4 1:6 1:2 1:3 Pigment	4 4 4 4 Color: "Grey Versa-Aggregate	4 4 4 4 4 lok STD SRW" Surface Pigment	
Sure Klean® Custom Masonry Cleaner Sure Klean® Custom Masonry Cleaner Sure Klean® Burnished Custom Masonry Cleaner Sure Klean® Burnished Custom Masonry Cleaner Substrate: Split-face Retaining Wall Product	1:4 1:6 1:2 1:3 <b>Pigment</b>	4 4 4 4 Color: "Grey Versa-Aggregate Exposure	4 4 4 4 4 lok STD SRW" Surface Pigment Alteration/Removal	
Sure Klean® Custom Masonry Cleaner Sure Klean® Custom Masonry Cleaner Sure Klean® Burnished Custom Masonry Cleaner Sure Klean® Burnished Custom Masonry Cleaner Substrate: Split-face Retaining Wall  Product  Sure Klean® Custom Masonry Cleaner	1:4 1:6 1:2 1:3 <b>Pigment</b> Dilution 1:2	4 4 4 4 Color: "Grey Versa-Aggregate Exposure 4	4 4 4 4 -lok STD SRW" Surface Pigment Alteration/Removal	
Sure Klean® Custom Masonry Cleaner Sure Klean® Custom Masonry Cleaner Sure Klean® Burnished Custom Masonry Cleaner Sure Klean® Burnished Custom Masonry Cleaner Substrate: Split-face Retaining Wall Product Sure Klean® Custom Masonry Cleaner Sure Klean® Custom Masonry Cleaner	1:4 1:6 1:2 1:3 <b>Pigment</b> Dilution 1:2 1:4	4 4 4 4 Color: "Grey Versa-Aggregate Exposure 4 4	4 4 4 4 4 -lok STD SRW" Surface Pigment Alteration/Removal 4 4	

Scale used for reporting results of both categories

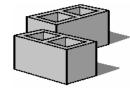
0 - Worst match to through-body

3 - Good match to through-body

1 – **Poor** match to through-body

4 – **Best** match to through-body





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#### **Test Results** – Color Uniformity (Continued)

Substrate: Split-face Retaining Wall	Pigment	: Color: "Tan Versa-l	ok Tumble SRW"
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean® Custom Masonry Cleaner	1:2	4	4
Sure Klean® Custom Masonry Cleaner	1:4	4	4
Sure Klean® Custom Masonry Cleaner	1:6	4	4
Sure Klean® Burnished Custom Masonry Cleaner	1:2	4	4
Sure Klean® Burnished Custom Masonry Cleaner	1:3	4	4
Substrate: Concrete Paver	Pigment	: <b>Color:</b> "B. Beige Be	rgerac Rect"
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean® Custom Masonry Cleaner	1:6	4	4
Sure Klean® Burnished Custom Masonry Cleaner	1:2	3	3
Sure Klean® Burnished Custom Masonry Cleaner	1:3	3	3
Substrate: Concrete Paver	Pigment	: Color: "LaPorte C.	Cobble SQ"
Product		Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:6	4	4
Sure Klean® Burnished Custom Masonry Cleaner	1:2	4	4
Sure Klean® Burnished Custom Masonry Cleaner		4	4
Substrate: Concrete Paver	Pigment Color: "F. Beige DCM Rect"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:6	4	4
Sure Klean® Burnished Custom Masonry Cleaner	1:2	3	3
Sure Klean® Burnished Custom Masonry Cleaner			3
Jule Mean Duminieu Custom Masoniy Cleaner	1:3	3	3
Substrate: Concrete Paver		3 : <b>Color:</b> "S. Grey DC	3
			3
Substrate: Concrete Paver	Pigment	Color: "S. Grey DC Aggregate	3 M SQ" Surface Pigment
Substrate: Concrete Paver  Product	<b>Pigment</b> Dilution	Color: "S. Grey DC Aggregate Exposure	3 M SQ" Surface Pigment Alteration/Removal
Substrate: Concrete Paver  Product  Sure Klean® Custom Masonry Cleaner	Pigment Dilution 1:6	Aggregate Exposure	3 M SQ" Surface Pigment Alteration/Removal
Substrate: Concrete Paver  Product  Sure Klean® Custom Masonry Cleaner  Sure Klean® Burnished Custom Masonry Cleaner	Dilution 1:6 1:2 1:3	Aggregate Exposure  4	3 M SQ" Surface Pigment Alteration/Removal 4 4 4
Product  Sure Klean® Custom Masonry Cleaner Sure Klean® Burnished Custom Masonry Cleaner Sure Klean® Burnished Custom Masonry Cleaner Sure Klean® Burnished Custom Masonry Cleaner Substrate: Concrete Paver  Product	Dilution 1:6 1:2 1:3	Aggregate Exposure  4  4  4	3 M SQ" Surface Pigment Alteration/Removal 4 4 4
Product  Sure Klean® Custom Masonry Cleaner Sure Klean® Burnished Custom Masonry Cleaner Sure Klean® Burnished Custom Masonry Cleaner Sure Klean® Burnished Custom Masonry Cleaner  Substrate: Concrete Paver  Product  Sure Klean® Custom Masonry Cleaner	Pigment Dilution 1:6 1:2 1:3 Pigment	Aggregate Exposure  4  4  4  Color: "Charcoal Ho	3 M SQ" Surface Pigment Alteration/Removal 4 4 4 billand" Surface Pigment
Product  Sure Klean® Custom Masonry Cleaner Sure Klean® Burnished Custom Masonry Cleaner Sure Klean® Burnished Custom Masonry Cleaner Sure Klean® Burnished Custom Masonry Cleaner Substrate: Concrete Paver  Product  Sure Klean® Custom Masonry Cleaner Sure Klean® Burnished Custom Masonry Cleaner	Pigment Dilution 1:6 1:2 1:3 Pigment Dilution	Aggregate Exposure  4  4  4  Color: "Charcoal How Aggregate Exposure	3 M SQ" Surface Pigment Alteration/Removal 4 4 4 Olland" Surface Pigment Alteration/Removal
Product  Sure Klean® Custom Masonry Cleaner Sure Klean® Burnished Custom Masonry Cleaner Sure Klean® Burnished Custom Masonry Cleaner Substrate: Concrete Paver  Product  Sure Klean® Custom Masonry Cleaner	Pigment Dilution 1:6 1:2 1:3 Pigment Dilution 1:6	Aggregate Exposure  4  4  4  Color: "Charcoal Ho Aggregate Exposure  4	3 M SQ" Surface Pigment Alteration/Removal 4 4 4 billand" Surface Pigment Alteration/Removal

Scale used for reporting results of both categories

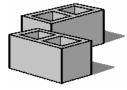
0 – **Worst** match to through-body

3 – **Good** match to through-body

1 – **Poor** match to through-body

4 - **Best** match to through-body





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#### **Test Results** - Color Uniformity (Continued)

Substrate: Concrete Paver	Pigment Color: "Rose Holland"			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	
Sure Klean <sup>®</sup> Custom Masonry Cleaner	1:6	4	4	
Sure Klean® Burnished Custom Masonry Cleaner	1:2	3	3	
Sure Klean® Burnished Custom Masonry Cleaner	1:3	3	3	

Scale used for reporting results of both categories

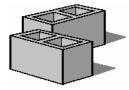
0 – **Worst** match to through-body

3 – **Good** match to through-body

1 – **Poor** match to through-body

4 – **Best** match to through-body



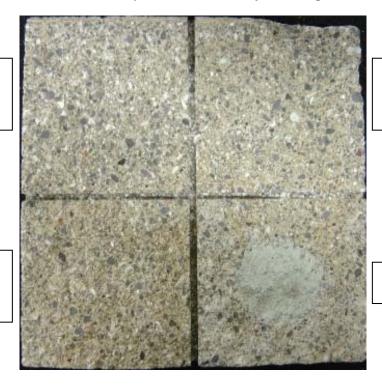


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#### **Photographs** - New Construction Cleaning

"Buff LW" Split-face CMU; 3 Day Cleaning





Untreated

Control

Sure Klean®

Custom

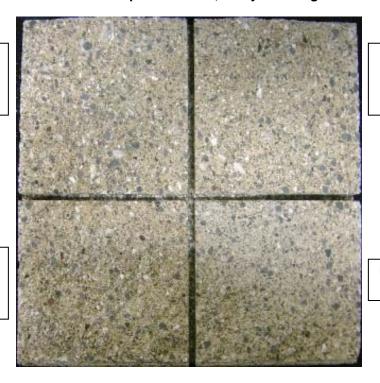
Masonry

Cleaner (1:4)

Sure Klean<sup>®</sup>
Custom
Masonry
Cleaner (1:6)

"Buff LW" Split-face CMU; 7 Day Cleaning

Sure Klean<sup>®</sup>
Custom
Masonry
Cleaner (1:2)

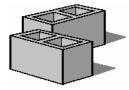


Sure Klean<sup>®</sup>
Custom
Masonry
Cleaner (1:4)

Sure Klean<sup>®</sup>
Custom
Masonry
Cleaner (1:6)

Untreated Control





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#### **Photographs** - New Construction Cleaning

"Buff LW" Split-face; 14 Day Cleaning





Sure Klean® Custom Masonry Cleaner (1:4)

Sure Klean® Custom Masonry Cleaner (1:6)

Untreated Control

"Buff NW" Ground-face CMU; 3 Day Cleaning

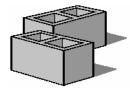


Sure Klean® Burnished **Custom Masonry Cleaner (1:2)** 

Sure Klean® Burnished **Custom Masonry Cleaner (1:3)** 

**Untreated Control** 





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#### **Photographs** - New Construction Cleaning

"Buff NW" Ground-face CMU; 7 Day Cleaning



Sure Klean<sup>®</sup> Burnished Custom Masonry Cleaner (1:2) Sure Klean® Burnished Custom Masonry Cleaner (1:3)

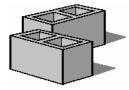
**Untreated Control** 

#### "Buff NW" Ground-face; 14 Day Cleaning



Sure Klean<sup>®</sup> Burnished Custom Masonry Cleaner (1:2) Sure Klean<sup>®</sup> Burnished Custom Masonry Cleaner (1:3)





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#### **Photographs** – Color Uniformity

"Buff LW" Split-face CMU; Through-body

Sure Klean<sup>®</sup>
Custom
Masonry
Cleaner (1:2)

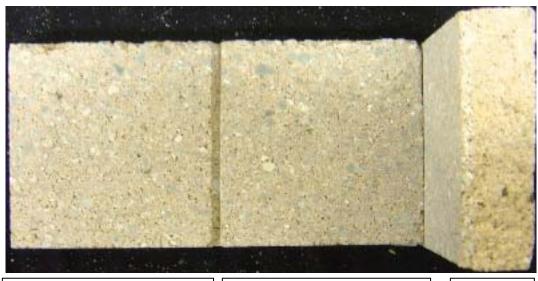


Sure Klean<sup>®</sup>
Custom
Masonry
Cleaner (1:4)

Sure Klean<sup>®</sup>
Custom
Masonry
Cleaner (1:6)

Throughbody

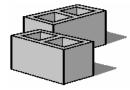




Sure Klean® Burnished Custom Masonry Cleaner (1:2) Sure Klean® Burnished Custom Masonry Cleaner (1:3)

Throughbody





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#### **Photographs** - Color Uniformity

"Sheffield Celtik Wall SRW" Split-face Retaining Wall; Through-body



**Custom Masonry** Cleaner (1:2)

**Custom Masonry** Cleaner (1:3)

body

#### "Rose Holland" Concrete Paver; Through-body

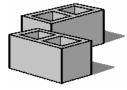


Sure Klean® **Burnished Custom** Masonry Cleaner (1:2) Sure Klean<sup>®</sup> Burnished **Custom Masonry** Cleaner (1:3)

Sure Klean® **Custom Masonry** Cleaner (1:6)

Throughbody





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#### **Conclusions – New Construction Cleaning**

Based on the test data, all of the submitted split-face CMU's were efficiently cleaned with Sure Klean<sup>®</sup> Custom Masonry Cleaner and all of the submitted ground-face CMU's were efficiently cleaned with Sure Klean<sup>®</sup> Burnished Custom Masonry Cleaner. Higher concentrations and surface agitation maximize aggregate exposure of the submitted CMU's, retaining walls and concrete pavers while lower concentrations and surface agitation minimize aggregate exposure.

#### **Recommendations** - New Construction Cleaning

Recommendations for cleaning for each sample submitted by Masolite, Fort Wayne, IN are provided in the chart below. Recommendations for new construction cleaning are based on the optimum dilution for complete removal of mortar while providing the best match to the through-body color of CMU's. Recommendations for color uniformity are based on the cleaner that provides the best match to the through-body color of the retaining walls and concrete pavers.

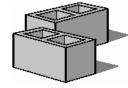
Sample	New Construction Cleaning (Type S mortar, 14 day cleaning)
All Submitted Split-face CMU's	Sure Klean <sup>®</sup> Custom Masonry Cleaner (1:2) OR (1:4) OR (1:6)
All Submitted Ground-face CMU's	Sure Klean <sup>®</sup> Burnished Custom Masonry Cleaner (1:2) OR (1:3)

Sample	Color Uniformity
All Submitted Split-face Retaining Walls	Sure Klean <sup>®</sup> Custom Masonry Cleaner (1:2) OR (1:4) OR (1:6) OR Sure Klean <sup>®</sup> Burnished Custom Masonry Cleaner (1:2) OR (1:3)
All Submitted Concrete Pavers	Sure Klean <sup>®</sup> Custom Masonry Cleaner (1:6) OR Sure Klean <sup>®</sup> Burnished Custom Masonry Cleaner (1:2) OR (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.

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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#### **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

#### **Description of Products Evaluated – Protective Water Repellents**

**Sure Klean® Custom Masonry Sealer** – A clear, solvent-based silicone elastomer formulated to weatherproof custom masonry units, cast stone, architectural concrete block, pre-cast concrete, wood and porous masonry. Custom Masonry Sealer penetrates and fills pores to prevent water penetration through exterior walls exposed to normal weathering.

**Sure Klean® Weather Seal Siloxane WB Concentrate** – A self-emulsifying water repellent concentrate designed for dilution with fresh water at the job site. This solvent-free blend of silanes and oligomeric alkoxysiloxanes mixes easily with water to produce a penetrating water repellent ideal for application to dense or porous masonry surfaces.

**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 breatheability.

**Consolideck® 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. The small molecular structure of SLX100 allows for maximum penetration at coverage rates higher than that of conventional silanes. Depth of penetration is controlled by the application rate (loading rate). This makes SLX100 ideal for protecting granite and other dense, color-sensitive surfaces.

#### Sample Preparation – Protective Water Repellents

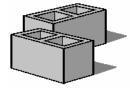
The submitted samples were scored, allowed to dry, and to reabsorb atmospheric humidity for 24 hours prior to treatment. All products were applied by brush and allowed to cure in accordance with the recommendations in the 2005 PROSOCO, Inc. Product Guide.

#### <u>Test Methods</u> – 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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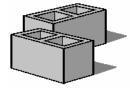
#### **Test Results** – Protective Water Repellents

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

#### **RESULTS**

	RESULTS
"B.U." Split-face CMU	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Custom Masonry Sealer	60 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:9	59 mph
Sure Klean® Weather Seal Siloxane WB 1:14	57 mph
"BHWT" Split-face CMU	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Custom Masonry Sealer	60 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:9	60 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:14	59 mph
"Buff LW" Split-face CMU	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Custom Masonry Sealer	60 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:9	59 mph
Sure Klean® Weather Seal Siloxane WB 1:14	58 mph
"Natural LW" Split-face CMU	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Custom Masonry Sealer	60 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:9	58 mph
Sure Klean® Weather Seal Siloxane WB 1:14	58 mph
"Natural NW" Split-face CMU	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Custom Masonry Sealer	60 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:9	59 mph
Sure Klean® Weather Seal Siloxane WB 1:14	59 mph
"Buff NW" Ground-face CMU	
Untreated Control	41 mph
Sure Klean <sup>®</sup> Custom Masonry Sealer	60 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:9	60 mph
Sure Klean® Weather Seal Siloxane WB 1:14	60 mph
"Edinburg Celtik Wall SRW" Split-face Retaining Wall	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Custom Masonry Sealer	60 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:9	60 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:14	59 mph





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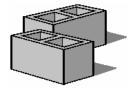
#### **Test Results** – Protective Water Repellents

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

#### **RESULTS**

	RESULTS
"Essex Celtik Wall SRW" Split-face Retaining Wall	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Custom Masonry Sealer	60 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:9	60 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:14	60 mph
"Sheffield Celtik Wall SRW" Split-face Retaining Wall	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Custom Masonry Sealer	60 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:9	60 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:14	60 mph
"Beige Keystone Compac SRW" Split-face Retaining Wall	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Custom Masonry Sealer	57 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:9	55 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:14	47 mph
"Grey Keystone Compac SRW" Split-face Retaining Wall	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Custom Masonry Sealer	57 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:9	53 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:14	46 mph
"Buff Maso-lok SRW" Split-face Retaining Wall	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Custom Masonry Sealer	60 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:9	60 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:14	60 mph
"Brown Versa-lok STD SRW" Split-face Retaining Wall	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Custom Masonry Sealer	60 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:9	60 mph
Sure Klean® Weather Seal Siloxane WB 1:14	59 mph
"Grey Versa-lok STD SRW" Split-face Retaining Wall	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Custom Masonry Sealer	60 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:9	60 mph
Sure Klean® Weather Seal Siloxane WB 1:14	59 mph





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#### **Test Results** – Protective Water Repellents

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

#### RESULTS

	RESULTS
"Tan Versa-lok Tumble SRW" Split-face Retaining Wall	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Custom Masonry Sealer	60 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:9	59 mph
Sure Klean <sup>®</sup> Weather Seal Siloxane WB 1:14	57 mph
"B. Beige Bergerac Rect" Concrete Paver	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Paver Enhancer	60 mph
Consolideck <sup>®</sup> Saltguard <sup>®</sup> WB	59 mph
Stand Off® SLX100 Water & Oil Repellent	60 mph
"LaPorte C. Cobble SQ" Concrete Paver	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Paver Enhancer	60 mph
Consolideck <sup>®</sup> Saltguard <sup>®</sup> WB	59 mph
Stand Off® SLX100 Water & Oil Repellent	60 mph
"F. Beige DCM Rect" Concrete Paver	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Paver Enhancer	60 mph
Consolideck <sup>®</sup> Saltguard <sup>®</sup> WB	59 mph
Stand Off® SLX100 Water & Oil Repellent	60 mph
"S. Grey DCM SQ" Concrete Paver	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Paver Enhancer	60 mph
Consolideck <sup>®</sup> Saltguard <sup>®</sup> WB	58 mph
Stand Off® SLX100 Water & Oil Repellent	60 mph
"Charcoal Holland" Concrete Paver	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Paver Enhancer	60 mph
Consolideck <sup>®</sup> Saltguard <sup>®</sup> WB	59 mph
Stand Off® SLX100 Water & Oil Repellent	60 mph
"Rose Holland" Concrete Paver	
Untreated Control	<40 mph
Sure Klean <sup>®</sup> Paver Enhancer	60 mph
Consolideck <sup>®</sup> Saltguard <sup>®</sup> WB	58 mph
Stand Off® SLX100 Water & Oil Repellent	60 mph



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#### **Photographs** - Protective Water Repellents

"Natural NW" Split-face CMU; RILEM Testing



Sure Klean® Weather Seal Siloxane WB Concentrate (1:14)

**Untreated Control** 

Sure Klean® Weather Seal Siloxane WB

Concentrate (1:9)

Sure Klean<sup>®</sup> Custom Masonry Sealer

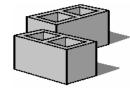
"Rose Holland" Concrete Paver; RILEM Testing



**Untreated Control** 

Stand Off® SLX100 Water & Oil Repellent Consolideck<sup>®</sup> Saltguard<sup>®</sup> WB Sure Klean® Paver Enhancer





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#### **Conclusions - Protective Water Repellents**

#### CMU's and Retaining Walls

Based upon laboratory evaluations, both Sure Klean® Custom Masonry Sealer and Sure Klean® Weather Seal Siloxane WB Concentrate diluted with nine and fourteen parts water provided excellent water repellency to each of the CMU's and retaining walls. In addition, Sure Klean® Custom Masonry Sealer provided slight color enhancement to the submitted samples. Sure Klean® Weather Seal Siloxane WB Concentrate diluted with nine parts and fourteen parts water did not alter the appearance of the samples in any way.

#### **Concrete Pavers**

Sure Klean® Paver Enhancer, Consolideck® Saltguard® WB, and Stand Off® SLX100 Water & Oil Repellent provided excellent water repellency to each of the submitted concrete pavers. In addition, Sure Klean® Paver Enhancer provided slight color enhancement to the submitted pavers. Neither Consolideck® Saltguard® WB nor Stand Off® SLX100 Water & Oil Repellent altered the appearance of the pavers in any way.

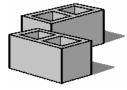
#### **Recommendations – Protective Water Repellents**

Recommendations for water repellency treatment for each sample submitted by Masolite, Fort Wayne, IN are provided in the chart below. Recommendations are based on the treatment that proved most effective at providing water repellency on all types submitted.

Sample	Water Repellents
"B.U." Split-face CMU "BHWT" Split-face CMU "Buff LW" Split-face CMU "Natural LW" Split-face CMU "Natural NW" Split-face CMU "Buff NW" Ground-face CMU "Edinburg Celtik Wall SRW" Split-face Retaining Wall "Essex Celtik Wall SRW" Split-face Retaining Wall "Sheffield Celtik Wall SRW" Split-face Retaining Wall "Sheffield Celtik Wall SRW" Split-face Retaining Wall "Buff Maso-lok SRW" Split-face Retaining Wall "Brown Versa-lok STD SRW" Split-face Retaining Wall "Grey Versa-lok STD SRW" Split-face Retaining Wall "Tan Versa-lok Tumble SRW" Split-face Retaining Wall	Sure Klean <sup>®</sup> Custom Masonry Sealer OR Sure Klean <sup>®</sup> Weather Seal Siloxane WB Concentrate (1:9) OR (1:14)
"Beige Keystone Compac SRW" Split-face Retaining Wall "Grey Keystone Compac SRW" Split-face Retaining Wall	Sure Klean <sup>®</sup> Custom Masonry Sealer OR Sure Klean <sup>®</sup> Weather Seal Siloxane WB Concentrate (1:9)
All Submitted Concrete Pavers	Sure Klean <sup>®</sup> Paver Enhancer OR Consolideck <sup>®</sup> Saltguard <sup>®</sup> WB OR Stand Off <sup>®</sup> SLX100 Water & Oil Repellent

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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#### **Graffiti Control**

These trials were conducted to determine the optimal graffiti control treatment for the submitted CMU's and retaining wall samples.

#### <u>Description of Products Evaluated</u> – Graffiti Control

#### **Graffiti Control Treatments**

**Sure Klean® Custom Masonry Sealer** – A clear, solvent-based silicone elastomer formulated to weatherproof custom masonry units, cast stone, architectural concrete block, pre-cast concrete, wood and porous masonry. Custom Masonry Sealer penetrates and fills pores to prevent water penetration through exterior walls exposed to normal weathering.

#### Products Evaluated for Graffiti Removal

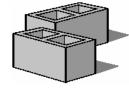
**Defacer Eraser® Graffiti Wipe** – An easy-to-use graffiti remover that does not contain methanol, methylene chloride or other halogenated solvents prohibited on many projects. Graffiti Wipe removes a variety of graffiti stains from most smooth masonry, split-face concrete block, wood and metal surfaces.

**Sure Klean® Fast Acting Stripper** – A thixotropic stripping compound formulated specifically for removal of high strength paints and coatings such as epoxies, polyurethanes, and floor enamels. Additionally, Fast Acting Stripper dissolves most spray paints, marking pens, lacquers and other graffiti.

#### Graffiti Agents

Interior/Exterior Spray Paint (Red) Permanent Marker (Green) Permanent Marker (Red) Permanent Marker (Black)





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#### Sample Preparation - Graffiti Control

This evaluation compares the effectiveness of the treatments tested to the untreated surfaces of the submitted samples in preventing staining of enamel spray paint and permanent markers.

Sections of the samples were treated with a wet-on-wet brushing application of Sure Klean<sup>®</sup> Custom Masonry Sealer in accordance with PROSOCO, Inc.'s 2005 Product Guide application instructions and then allowed to cure for at least one day. At the end of the cure period, a visual adverse effects evaluation was made and then the graffiti agents were applied to the substrates.

Spray paint and markers were applied as graffiti agents to all treated surfaces no sooner than one day following application of Sure Klean<sup>®</sup> Custom Masonry Sealer. Removal of the graffiti agents was attempted 24 hours after application of the graffiti agents, using Defacer Eraser<sup>®</sup> Graffiti Wipe and Sure Klean<sup>®</sup> Fast Acting Stripper.

#### **Test Method – Graffiti Control**

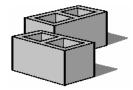
Chemical cleaners were evaluated using the following procedure:

- 1. Apply the product to a dry surface, soiled with graffiti.
- 2. Allow appropriate dwell time:

- 3. Pressure rinse thoroughly until water runs clear.\*
- 4. Allow the surface to dry thoroughly and visually examine to determine effectiveness.

\*Pressure Rinsing Equipment – Masonry washing equipment generating approximately 1300 psi with a water flow rate of 1.9 gallons per minute delivered through a 45 degree fan spray tip was used for rinsing.



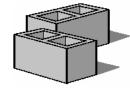


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#### <u>Test Results</u> – Graffiti Control

"B.U." Split-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	80%	90%	95%	95%	90%
Graffiti Wipe	60%	60%	80%	90%	73%
Custom Masonry Sealer	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	100%	100%	99%	97%
Graffiti Wipe	95%	100%	100%	99%	99%
	"В	HWT" Split-fac	e CMU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	70%	90%	85%	90%	84%
Graffiti Wipe	70%	80%	85%	90%	81%
Custom Masonry Sealer	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	100%	100%	98%	97%
Graffiti Wipe	95%	100%	98%	98%	98%
	"Bu	ıff LW" Split-fa	ce CMU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	95%	70%	80%	84%
Graffiti Wipe	95%	40%	70%	80%	71%
Custom Masonry Sealer	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	100%	100%	99%
Graffiti Wipe	95%	100%	100%	100%	99%
	"Natı	ıral LW" Split-	face CMU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	70%	60%	60%	70%	65%
Graffiti Wipe	60%	20%	60%	70%	53%
Custom Masonry Sealer	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	95%	85%	90%	90%
Graffiti Wipe	95%	95%	85%	90%	91%
	"Natu	ıral NW" Split-	face CMU		
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	60%	70%	60%	70%	65%
Graffiti Wipe	50%	20%	60%	50%	45%
Custom Masonry Sealer	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	85%	95%	85%	90%	89%
Graffiti Wipe	90%	90%	80%	80%	85%
"Buff NW" Ground-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	80%	90%	60%	80%	78%
Graffiti Wipe	70%	20%	50%	80%	55%
Custom Masonry Sealer	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	80%	99%	94%
Graffiti Wipe	95%	80%	80%	95%	88%



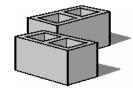


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#### <u>Test Results</u> – Graffiti Control

"Edinburg Celtik Wall SRW" Split-face Retaining Wall					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	80%	90%	90%	90%	88%
Graffiti Wipe	60%	80%	80%	90%	78%
Custom Masonry Sealer	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	100%	100%	99%
Graffiti Wipe	95%	100%	100%	100%	99%
"Ess	ex Celtik W	all SRW" Split	-face Retaining	Wall	
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	70%	90%	20%	70%	63%
Graffiti Wipe	50%	10%	20%	70%	38%
<b>Custom Masonry Sealer</b>	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	100%	100%	99%
Graffiti Wipe	90%	95%	95%	95%	94%
"Sheff	ield Celtik \	Wall SRW" Spl	it-face Retainin	g Wall	
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	60%	90%	70%	80%	75%
Graffiti Wipe	40%	40%	60%	80%	55%
<b>Custom Masonry Sealer</b>	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	95%	100%	98%
Graffiti Wipe	90%	95%	95%	100%	95%
"Beige K	Ceystone Co	ompac SRW" S	Split-face Retain	ning Wall	
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	95%	50%	95%	83%
Graffiti Wipe	80%	20%	70%	95%	66%
Custom Masonry Sealer	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	99%	100%	100%	100%	100%
Graffiti Wipe	95%	100%	100%	100%	99%
"Grey K	eystone Co	mpac SRW" S	plit-face Retain	ing Wall	
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	90%	60%	80%	80%
Graffiti Wipe	50%	50%	60%	80%	60%
Custom Masonry Sealer	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	100%	100%	100%	98%
Graffiti Wipe	90%	100%	100%	100%	98%
"Buff Maso-lok SRW" Split-face Retaining Wall					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	70%	90%	50%	80%	73%
Graffiti Wipe	50%	20%	50%	80%	50%
Custom Masonry Sealer	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	95%	95%	95%	94%
i asi Aciing Oinppei					



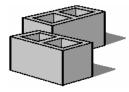


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#### <u>Test Results</u> – Graffiti Control

"Brow	"Brown Versa-lok STD SRW" Split-face Retaining Wall				
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	80%	95%	40%	90%	76%
Graffiti Wipe	50%	40%	40%	90%	55%
Custom Masonry Sealer	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	100%	100%	99%
Graffiti Wipe	90%	90%	95%	95%	93%
"Gre	y Versa-lok	STD SRW" Spl	it-face Retainin	g Wall	
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	80%	70%	40%	80%	68%
Graffiti Wipe	70%	50%	40%	80%	60%
Custom Masonry Sealer	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	98%	95%	97%
Graffiti Wipe	95%	100%	98%	95%	97%
"Tan \	/ersa-lok Tu	mble SRW" Sp	lit-face Retaini	ng Wall	
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	80%	80%	40%	80%	70%
Graffiti Wipe	50%	40%	40%	80%	53%
Custom Masonry Sealer	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	95%	95%	95%	95%
Graffiti Wipe	95%	95%	90%	95%	94%





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#### **Photographs** – Graffiti Control

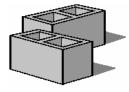
"Buff LW" Split-face CMU; Before Graffiti Removal



"Buff LW" Split-face CMU; After Graffiti Removal







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#### **Conclusions – Graffiti Control**

Based upon laboratory evaluations, graffiti removal was improved when the submitted samples were treated with Sure Klean<sup>®</sup> Custom Masonry Sealer prior to graffiti application. In addition, Sure Klean<sup>®</sup> Custom Masonry Sealer provided a slight color enhancement to the submitted samples.

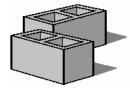
#### Recommendations - Graffiti Control

Recommendations for graffiti control treatment for each type of CMU and retaining wall submitted by Masolite, Fort Wayne, IN are provided in the chart below. Recommendations are based on the treatment that proved most effective for providing graffiti repellency and the product that was most effective at removing the graffiti on all types submitted.

Sample	Graffiti Repellents	Graffiti Removers
All Submitted CMU's and Retaining Walls	Sure Klean <sup>®</sup> Custom Masonry Sealer	Defacer Eraser <sup>®</sup> Graffiti Wipe OR Sure Klean <sup>®</sup> Fast Acting Stripper

Apply all products in accordance with the manufacturer's recommendation provided on container labels and product data sheets. Because the severity of graffiti varies from location to location, on-site testing should be conducted to determine the most appropriate graffiti control product and procedure for a particular project.





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#### **Stain Repellency**

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

#### **Description of Products Evaluated** – Stain Repellency

#### **Stain Repellent Treatments**

**Stand Off**<sup>®</sup> **Stone, Tile & Masonry Protector (STMP)** – A penetrating oil and stain repellent that is an 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. The small molecular structure of SLX100 allows for maximum penetration at coverage rates higher than that of conventional silanes. Depth of penetration is controlled by the application rate (loading rate). This makes SLX100 ideal for protecting granite and other dense, color-sensitive surfaces.

#### Maintenance Cleaner

**Enviro Klean® 2010 All Surface Cleaner** – A "next-generation" product for cleaning and degreasing light-to-heavily soiled stone, tile, masonry and much more. Powerful enough for industrial use, flexible enough for jobs around the home, space-saving EK 2010 replaces a host of individual cleaning agents. It is suitable for home-use on windows, bathroom tub and tile, counter tops and more when diluted with water. It's concentrated enough for the toughest industrial cleaning jobs on concrete, metal and many other plant and warehouse surfaces. EK 2010 also removes Sure Klean® Weather Seal Siloxane PD overspray from windows.

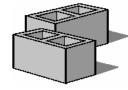
#### Staining Agents Evaluated

<u>Products</u>	<b>Temperature</b>
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)

#### Sample Preparation – Stain Repellency

Samples were cleaned with Enviro Klean<sup>®</sup> 2010 All Surface Cleaner diluted with 10 parts water, allowed to dry and absorb atmospheric moisture for 24 hours prior to treatment. Both products were applied by brush in accordance with the recommendations in PROSOCO, Inc.'s 2005 Product Guide and allowed to cure for at least 72 hours.





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#### Test Method - Stain Repellency

#### **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 globular fashion and therefore are 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°



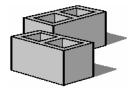
5. Wetting beyond the contact area (darkening); angle is flat.



#### Stain Removal Evaluation

The soiling agents were allowed to dwell on the treated and untreated substrates for times of 24 hours, 4 hours, 1 hour, and 10 minutes. The test areas were then cleaned with Enviro Klean® 2010 All Surface Cleaner diluted 1 part concentrate to 10 parts fresh water and scrubbed under a stream of running water from a faucet. Samples were allowed to dry for 24 hours. Evaluation consisted of a visual examination of the tested areas to determine the percentage of staining removal.



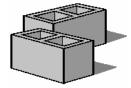


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#### **Test Results** – Surface Beading

	"B. Beige Bergerac Rect" Concrete paver									
	Coco- Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee	
Untreated Control	5	-	-	5	5	4	5	5	5	
STMP	2	-	-	3	3	3	3	3	4	
SLX100	1	-	-	1	1	1	2	2	3	
"LaPorte C. Cobble SQ" Concrete Paver										
	Coco- Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee	
Untreated Control	3	-	-	3	3	3	5	5	5	
STMP	1	-	-	2	2	2	3	3	4	
SLX100	1	-	-	1	1	1	2	2	3	
		"F	. Beige DO	CM Rect"	Concrete	Paver	'			
	Coco- Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee	
Untreated Control	3	-	-	4	4	4	5	5	5	
STMP	2	-	-	2	2	2	3	3	4	
SLX100	1	-	-	1	1	1	3	3	3	
		"	S. Grey D	CM SQ" C	oncrete P	aver				
	Coco- Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee	
<b>Untreated Control</b>	5	-	-	5	5	5	5	5	5	
STMP	2	-	-	3	2	2	3	3	4	
SLX100	1	-	-	1	1	1	3	3	3	
		"(	Charcoal I	Holland" (	Concrete P	Paver				
	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	4	
SLX100	1	-	-	1	2	2	3	3	3	
			"Rose Ho	lland" Co	ncrete Pa	ver				
	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	2	-	-	3	3	3	3	3	4	
SLX100	1	-	-	1	1	1	3	3	3	





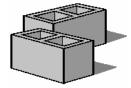
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#### <u>Test Results</u> – Stain Repellency

			"B. B	eige Berge	erac Rect"	Concrete F	Paver		
	Untreated	Control							
	Coca- Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	95%*	90%*	100%	100%*	100%	<1%	<1%	100%
4 hour	100%	100%*	100%*	100%	100%*	100%	<1%	<1%	100%
1 hour	100%	100%*	100%*	100%	100%*	100%	<1%	<1%	100%
10 min.	100%	100%*	100%*	100%	100%*	100%	<1%	<1%	100%
	Stand Off <sup>®</sup> Stone, Tile & Masonry Protector (STMP)								
	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 <sup>®</sup>	SLX100 W	ater & Oil R	epellent					
	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%	90%	100%
4 hour	100%	100%*	100%*	100%	100%*	100%	100%	95%	100%
1 hour	100%	100%*	100%*	100%	100%*	100%	100%	100%	100%
10 min.	100%	100%*	100%*	100%	100%*	100%	100%	100%	100%
		"LaPorte C. Cobble SQ" Concrete Paver							
	Untreated Control								
	Untreated	Control							
	Untreated Coca- Cola		Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr			Mustard 85%*	Red Wine	Balsamic		Olive Oil		Hot Coffee
24 hr 4 hour	Coca- Cola	Ketchup			Balsamic Vinegar	Soy Sauce		Oil	
	Coca- Cola	Ketchup 100%*	85%*	100%	Balsamic Vinegar 100%*	Soy Sauce	<1%	<b>Oil</b> <1%	100%
4 hour	100% 100%	<b>Ketchup</b> 100%* 100%*	85%* 95%*	100%	Balsamic Vinegar 100%* 100%*	Soy Sauce 100% 100%	<1% <1%	Oil <1% <1%	100%
4 hour 1 hour	Coca- Cola 100% 100% 100% 100%	100%* 100%* 100%* 100%*	85%* 95%* 100%* 100%*	100% 100% 100%	Balsamic Vinegar 100%* 100%* 100%*	Soy Sauce 100% 100% 100%	<1% <1% <1%	Oil <1% <1% <1% <1%	100% 100% 100%
4 hour 1 hour	Coca- Cola 100% 100% 100% 100%	100%* 100%* 100%* 100%* 100%*	85%* 95%* 100%* 100%*	100% 100% 100% 100%	Balsamic Vinegar 100%* 100%* 100%*	Soy Sauce 100% 100% 100%	<1% <1% <1%	Oil <1% <1% <1% <1%	100% 100% 100%
4 hour 1 hour	Coca- Cola  100%  100%  100%  100%  Stand Off®	100%* 100%* 100%* 100%* 100%*	85%* 95%* 100%* 100%*	100% 100% 100% 100% Protector (\$	Balsamic Vinegar 100%* 100%* 100%* 100%* STMP) Balsamic	100% 100% 100% 100%	<1% <1% <1% <1%	Oil <1% <1% <1% <1% <1% <1% <1% <	100% 100% 100% 100%
4 hour 1 hour 10 min.	Coca- Cola  100%  100%  100%  100%  Stand Off®  Coca- Cola	100%* 100%* 100%* 100%* 100%*  Stone, Tile Ketchup	85%* 95%* 100%* 100%* & Masonry Mustard	100% 100% 100% 100% Protector (S	Balsamic Vinegar 100%* 100%* 100%* 100%* STMP) Balsamic Vinegar	Soy Sauce  100% 100% 100% 100% Soy Sauce	<1% <1% <1% <1% Olive Oil	Oil <1% <1% <1% <1% <1% <1% <1% <1% <1% <1%	100% 100% 100% 100% Hot Coffee
4 hour 1 hour 10 min.	Coca- Cola  100%  100%  100%  100%  Stand Off <sup>®</sup> Coca- Cola  100%	100%* 100%* 100%* 100%* 2 Stone, Tile Ketchup 100%*	85%* 95%* 100%* 100%* <b>&amp; Masonry</b> Mustard  100%*	100% 100% 100% 100% Protector (3 Red Wine	Balsamic Vinegar 100%* 100%* 100%* 5TMP) Balsamic Vinegar 100%*	Soy Sauce  100% 100% 100%  5oy Sauce  100%	<1% <1% <1% <1% <1% <100 <100	Oil <1% <1% <1% <1% <1% <1% <1% <1% <1% <1%	100% 100% 100% 100% Hot Coffee
4 hour 1 hour 10 min. 24 hr 4 hour	Coca- Cola  100%  100%  100%  100%  Stand Off <sup>®</sup> Coca- Cola  100%  100%  100%  100%	100%* 100%* 100%* 100%*  100%*  Stone, Tile  Ketchup  100%* 100%* 100%* 100%*	85%* 95%* 100%* 100%*  * Masonry  Mustard  100%* 100%* 100%*	100% 100% 100% 100% Protector (S Red Wine 100% 100% 100%	Balsamic Vinegar  100%* 100%* 100%* 100%*  STMP)  Balsamic Vinegar  100%*	Soy Sauce  100% 100% 100%  5oy Sauce 100% 100%	<1% <1% <1% <1% <1% <100  100%	Oil <1% <1% <1% <1% <1% <1%  100%	100% 100% 100% 100% Hot Coffee 100%
4 hour 1 hour 10 min. 24 hr 4 hour 1 hour	Coca- Cola  100%  100%  100%  100%  Stand Off <sup>®</sup> Coca- Cola  100%  100%  100%  100%	100%* 100%* 100%* 100%*  100%*  Stone, Tile  Ketchup  100%* 100%* 100%* 100%*	85%* 95%* 100%* 100%*  * Masonry  Mustard  100%* 100%* 100%*	100% 100% 100% 100% Protector (S Red Wine 100% 100% 100%	Balsamic Vinegar 100%* 100%* 100%* 100%* STMP) Balsamic Vinegar 100%* 100%*	Soy Sauce  100% 100% 100%  100%  Soy Sauce  100% 100% 100%	<1% <1% <1% <1% <1% <100  100%  100%  100%	Oil <1% <1% <1% <1% <1% <10%  Wesson Oil 100% 100%	100% 100% 100% 100% Hot Coffee 100% 100%
4 hour 1 hour 10 min. 24 hr 4 hour 1 hour	Coca- Cola  100%  100%  100%  100%  Stand Off <sup>®</sup> Coca- Cola  100%  100%  100%  100%	Ketchup  100%* 100%* 100%* 100%*  Stone, Tile  Ketchup  100%* 100%* 100%*  2 SLX100 Wa	85%* 95%* 100%* 100%*  * Masonry  Mustard  100%* 100%* 100%*	100% 100% 100% 100% Protector (S Red Wine 100% 100% 100%	Balsamic Vinegar 100%* 100%* 100%* 100%* STMP) Balsamic Vinegar 100%* 100%*	Soy Sauce  100% 100% 100%  100%  Soy Sauce  100% 100% 100%	<1% <1% <1% <1% <1% <100  100%  100%  100%	Oil <1% <1% <1% <1% <1% <10%  Wesson Oil 100% 100%	100% 100% 100% 100% Hot Coffee 100% 100%
4 hour 1 hour 10 min. 24 hr 4 hour 1 hour	Coca- Cola  100%  100%  100%  100%  Stand Off <sup>®</sup> Coca- Cola  100%  100%  100%  Stand Off <sup>®</sup> Stand Off <sup>®</sup>	Ketchup  100%* 100%* 100%* 100%*  Stone, Tile  Ketchup  100%* 100%* 100%*  2 SLX100 Wa	85%* 95%* 100%* 100%*  8 Masonry  Mustard  100%* 100%* 100%* 100%* ater & Oil Research	100% 100% 100% 100% Protector (3 Red Wine 100% 100% 100% 100% epellent	Balsamic Vinegar  100%* 100%* 100%* 100%* STMP)  Balsamic Vinegar 100%* 100%* 100%* Balsamic Vinegar	Soy Sauce  100% 100% 100% 100%  Soy Sauce 100% 100% 100% 100%	<1% <1% <1% <1% <1% <100  100%  100%  100%  100%	Oil     <1%     <1%     <1%     <1%     <1%     <1%     <1%     <1%    Wesson Oil 100%   100% 100%   100% Wesson	100% 100% 100% 100% Hot Coffee 100% 100% 100%
4 hour 1 hour 10 min. 24 hr 4 hour 1 hour 10 min.	Coca- Cola  100%  100%  100%  100%  Stand Off <sup>®</sup> Coca- Cola  100%  100%  100%  5tand Off <sup>®</sup> Coca- Cola	Ketchup  100%* 100%* 100%* 100%* Stone, Tile Ketchup  100%* 100%* 100%* 100%* SLX100 Will Ketchup	85%* 95%* 100%* 100%*  & Masonry  Mustard  100%* 100%* 100%* 100%*  Mustard	100% 100% 100% 100% Protector (3 Red Wine 100% 100% 100% 100% Red Wine Red Wine	Balsamic Vinegar  100%* 100%* 100%* 100%* STMP)  Balsamic Vinegar 100%* 100%* 100%* Union of the second of the sec	Soy Sauce  100% 100% 100%  100%  100%  Soy Sauce  100% 100% 100%  Soy Sauce	<1% <1% <1% <1% <1% <100  100%  100%  100%  100%  100%  100%	Oil	100% 100% 100% 100%  Hot Coffee  100% 100% 100% Hot Coffee
4 hour 1 hour 10 min. 24 hr 4 hour 1 hour 10 min.	Coca- Cola  100%  100%  100%  100%  Stand Off <sup>®</sup> Coca- Cola  100%  100%  100%  Stand Off <sup>®</sup> Coca- Cola  100%  100%	Ketchup  100%* 100%* 100%* 100%*  Stone, Tile  Ketchup  100%* 100%* 100%*  SLX100 W  Ketchup  100%*	85%* 95%* 100%* 100%*  8 Masonry  Mustard  100%* 100%* 100%* 100%*  Mustard  100%*	100% 100% 100% 100% Protector (\$ Red Wine 100% 100% 100% Pepellent Red Wine 100%	Balsamic Vinegar  100%* 100%* 100%* 100%*  STMP)  Balsamic Vinegar 100%* 100%* 100%* 100%* 100%*	Soy Sauce  100% 100% 100%  100%  Soy Sauce  100% 100%  100%  100%  100%  100%	<1% <1% <1% <1% <1% <100  Dlive Oil  100%  100%  100%  100%  Olive Oil  100%	Oil     <1%     <1%     <1%     <1%     <1%     <1%     <1%     <1%  100% 100% 100% 100% 100% 100%	100% 100% 100% 100%  Hot Coffee 100% 100%  Hot Coffee

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



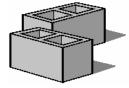


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#### **Test Results** - Stain Repellency

			"F.	. Beige DCI	M Rect" Co	oncrete Pav	/er		
	Untreated	Control							
	Coca- Cola		Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%*	<1%*	100%	100%*	100%	<1%	<1%	100%
4 hour	100%	100%*	100%*	100%	100%*	100%	<1%	<1%	100%
1 hour	100%	100%*	100%*	100%	100%*	100%	<1%	<1%	100%
10 min.	100%	100%*	100%*	100%	100%*	100%	<1%	<1%	100%
	Stand Off <sup>®</sup> Stone, Tile & Masonry Protector (STMP)								
	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 <sup>®</sup>	SLX100 W	ater & Oil R	epellent					
	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%
			"(	S. Grey DC	M SQ" Co	ncrete Pave	er		
	Untreated	Control							
	Coca- Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%*	100%*	100%	100%*	100%	<1%	<1%	100%
4 hour	100%	100%*	100%*	100%	100%*	100%	<1%	<1%	100%
1 hour	100%	100%*	100%*	100%	100%*	100%	<1%	<1%	100%
10 min.	100%	100%*	100%*	100%	100%*	100%	<1%	<1%	100%
	Stand Off <sup>®</sup>	Stone, Tile	& Masonry	Protector (	STMP)				
	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 <sup>®</sup>	SLX100 W	ater & Oil R	epellent					
	Coca- Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100%	100%	100%	100%	100%	100%	100%	100%	100%
4 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
1 hour	100%	100%	100%	100%	100%	100%	100%	100%	100%
10 min.	100%	100%	100%	100%	100%	100%	100%	100%	100%





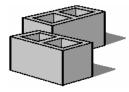
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#### **Test Results** - Stain Repellency

			"(	Charcoal He	olland" Co	ncrete Pav	er						
	Untreated	Control											
	Coca- Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee				
24 hr	100%	90%*	<1%*	100%	100%*	100%	<1%	<1%	100%				
4 hour	100%	90%*	100%*	100%	100%*	100%	<1%	<1%	100%				
1 hour	100%	100%*	100%*	100%	100%*	100%	<1%	<1%	100%				
10 min.	100%	100%*	100%*	100%	100%*	100%	<1%	<1%	100%				
	Stand Off <sup>®</sup> Stone, Tile & Masonry Protector (STMP)												
	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®	SLX100 W	ater & Oil R	epellent									
	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%				
				"Rose Holl	and" Cond	"Rose Holland" Concrete Paver							
	Untreated Control												
	Untreated	Control											
	Untreated Coca- Cola		Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee				
24 hr			Mustard	Red Wine		Soy Sauce	Olive Oil		Hot Coffee				
24 hr 4 hour	Coca- Cola	Ketchup			Vinegar			Oil	1				
-	Coca- Cola	Ketchup 100%*	100%*	100%	Vinegar 100%*	100%	<1%	<b>Oil</b> <1%	100%				
4 hour	100% 100%	<b>Ketchup</b> 100%* 100%*	100%* 100%*	100%	100%* 100%*	100%	<1% <1%	Oil <1% <1%	100%				
4 hour 1 hour	Coca- Cola 100% 100% 100% 100%	100%* 100%* 100%* 100%*	100%* 100%* 100%* 100%*	100% 100% 100%	Vinegar 100%* 100%* 100%* 100%*	100% 100% 100%	<1% <1% <1%	Oil <1% <1% <1% <1%	100% 100% 100%				
4 hour 1 hour	Coca- Cola 100% 100% 100% 100%	100%* 100%* 100%* 100%* 100%*	100%* 100%* 100%* 100%*	100% 100% 100% 100%	Vinegar 100%* 100%* 100%* 100%*	100% 100% 100%	<1% <1% <1%	Oil <1% <1% <1% <1%	100% 100% 100%				
4 hour 1 hour	Coca- Cola  100%  100%  100%  100%  Stand Off®	100%* 100%* 100%* 100%* 100%*	100%* 100%* 100%* 100%*	100% 100% 100% 100% Protector (\$	100%* 100%* 100%* 100%* 100%* STMP) Balsamic	100% 100% 100% 100%	<1% <1% <1% <1%	Oil <1% <1% <1% <1% <1% <1% <1% <	100% 100% 100% 100%				
4 hour 1 hour 10 min.	Coca- Cola  100%  100%  100%  100%  Stand Off®  Coca- Cola	100%* 100%* 100%* 100%* 100%*  Stone, Tile Ketchup	100%* 100%* 100%* 100%* & Masonry Mustard	100% 100% 100% 100% Protector (S	100%* 100%* 100%* 100%* 100%* STMP) Balsamic Vinegar	100% 100% 100% 100% Soy Sauce	<1% <1% <1% <1% <1%	Oil <1% <1% <1% <1% <1% <1% <1% <1% <1% <1%	100% 100% 100% 100% Hot Coffee				
4 hour 1 hour 10 min.	Coca- Cola  100%  100%  100%  100%  Stand Off <sup>®</sup> Coca- Cola  100%	100%* 100%* 100%* 100%* 2 Stone, Tile Ketchup 100%*	100%* 100%* 100%* 100%* 2 & Masonry Mustard 100%*	100% 100% 100% 100% Protector (3 Red Wine	100%* 100%* 100%* 100%* STMP)  Balsamic Vinegar 100%*	100% 100% 100% 100% Soy Sauce	<1% <1% <1% <1% <1% <1%  100%	Oil <1% <1% <1% <1% <1% <1% <1% <1% <1% <1%	100% 100% 100% 100% Hot Coffee				
4 hour 1 hour 10 min. 24 hr 4 hour	Coca- Cola  100%  100%  100%  100%  Stand Off <sup>®</sup> Coca- Cola  100%  100%	100%* 100%* 100%* 100%* 2 Stone, Tile Ketchup 100%* 100%*	100%* 100%* 100%* 100%*  * Masonry  Mustard  100%* 100%*	100% 100% 100% 100% Protector (3 Red Wine 100%	Vinegar   100%*   100%*   100%*       The state of the	100% 100% 100% 100% Soy Sauce 100%	<1% <1% <1% <1% Olive Oil 100%	Oil <1% <1% <1% <1% <1% <1%  100%	100% 100% 100% 100% Hot Coffee 100%				
4 hour 1 hour 10 min. 24 hr 4 hour 1 hour	Coca- Cola  100%  100%  100%  100%  Stand Off <sup>®</sup> Coca- Cola  100%  100%  100%  100%	100%* 100%* 100%* 100%*  100%*  Stone, Tile  Ketchup  100%* 100%* 100%* 100%*	100%* 100%* 100%* 100%*  * Masonry  Mustard  100%* 100%* 100%*	100% 100% 100% 100% Protector (S Red Wine 100% 100% 100%	100%* 100%* 100%* 100%* 100%*  STMP)  Balsamic Vinegar 100%* 100%*	100% 100% 100% 100% Soy Sauce 100% 100%	<1% <1% <1% <1% <1% <100  100%  100%  100%	Oil <1% <1% <1% <1% <1% <10%  Wesson Oil 100% 100%	100% 100% 100% 100% Hot Coffee 100% 100%				
4 hour 1 hour 10 min. 24 hr 4 hour 1 hour	Coca- Cola  100%  100%  100%  100%  Stand Off <sup>®</sup> Coca- Cola  100%  100%  100%  100%	Ketchup  100%* 100%* 100%* 100%*  Stone, Tile  Ketchup  100%* 100%* 100%*  2 SLX100 Wa	100%* 100%* 100%* 100%*  * Masonry  * Mustard  100%* 100%* 100%* 100%*	100% 100% 100% 100% Protector (S Red Wine 100% 100% 100%	100%* 100%* 100%* 100%* 100%*  STMP)  Balsamic Vinegar 100%* 100%*	100% 100% 100% 100% Soy Sauce 100% 100%	<1% <1% <1% <1% <1% <100  100%  100%  100%	Oil <1% <1% <1% <1% <1% <10%  Wesson Oil 100% 100%	100% 100% 100% 100% Hot Coffee 100% 100%				
4 hour 1 hour 10 min. 24 hr 4 hour 1 hour	Coca- Cola  100%  100%  100%  100%  Stand Off <sup>®</sup> Coca- Cola  100%  100%  100%  Stand Off <sup>®</sup> Stand Off <sup>®</sup>	Ketchup  100%* 100%* 100%* 100%*  Stone, Tile  Ketchup  100%* 100%* 100%*  2 SLX100 Wa	100%* 100%* 100%* 100%*  * Masonry  * Mustard  100%* 100%* 100%* 100%* ater & Oil Research	100% 100% 100% 100% Protector (3 Red Wine 100% 100% 100% 100% epellent	Vinegar  100%* 100%* 100%* 100%*  STMP)  Balsamic Vinegar  100%* 100%* 100%*  Balsamic	100% 100% 100% 100% 5oy Sauce 100% 100% 100%	<1% <1% <1% <1% <1% <100  100%  100%  100%  100%	Oil     <1%     <1%     <1%     <1%     <1%     <1%     <1%     <1%    Wesson Oil 100%   100% 100%   100% Wesson	100% 100% 100% 100% Hot Coffee 100% 100% 100%				
4 hour 1 hour 10 min. 24 hr 4 hour 1 hour 10 min.	Coca- Cola  100%  100%  100%  100%  Stand Off <sup>®</sup> Coca- Cola  100%  100%  100%  5tand Off <sup>®</sup> Coca- Cola	Ketchup  100%* 100%* 100%* 100%* Stone, Tile Ketchup  100%* 100%* 100%* 100%* SLX100 Will Ketchup	100%* 100%* 100%* 100%*  * Masonry  Mustard  100%* 100%* 100%* 100%*  100%*  Mustard	100% 100% 100% 100% Protector (3 Red Wine 100% 100% 100% 100% Red Wine Red Wine	Vinegar  100%* 100%* 100%* 100%*  STMP)  Balsamic Vinegar  100%* 100%* 100%*  Balsamic Vinegar	100% 100% 100% 100% Soy Sauce 100% 100% 100% Soy Sauce	<1% <1% <1% <1% <1%  Olive Oil  100%  100%  100%  Olive Oil	Oil	100% 100% 100% 100%  Hot Coffee  100% 100% 100% Hot Coffee				
4 hour 1 hour 10 min. 24 hr 4 hour 1 hour 10 min.	Coca- Cola  100%  100%  100%  100%  Stand Off <sup>®</sup> Coca- Cola  100%  100%  100%  Stand Off <sup>®</sup> Coca- Cola  100%  100%	Ketchup  100%* 100%* 100%* 100%*  Stone, Tile  Ketchup  100%* 100%* 100%*  SLX100 W  Ketchup  100%*	100%* 100%* 100%* 100%* 100%*  8 Masonry  Mustard  100%* 100%* 100%*  ater & Oil Re  Mustard  100%*	100% 100% 100% 100% Protector (\$ Red Wine 100% 100% 100% Pepellent Red Wine 100%	Vinegar   100%*   100%*   100%*   100%*   STMP)   Balsamic   Vinegar   100%*	100% 100% 100% 100% Soy Sauce 100% 100% Soy Sauce 100%	<1% <1% <1% <1% <1% <100  Dlive Oil  100%  100%  100%  Olive Oil  100%	Oil     <1%     <1%     <1%     <1%     <1%     <1%     <1%     <1%  100% 100% 100% 100% 100% 100%	100% 100% 100% 100%  Hot Coffee 100% 100%  Hot Coffee				

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





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#### **Photographs** - Stain Repellency

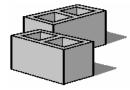
"S. Grey DCM SQ"; Stains Applied



"S. Grey DCM SQ"; Stains Removed







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#### **Conclusions** - Stain Repellency

Based upon laboratory evaluations, both Stand Off<sup>®</sup> Stone, Tile & Masonry Protector (STMP) and Stand Off<sup>®</sup> SLX100 Water & Oil Repellent improved the surface beading of the samples. In addition, at least one of the treatments evaluated was effective in repelling the staining agents, especially the oils, from the submitted samples.

#### Recommendations - Stain Repellency

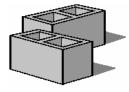
Recommendations for stain resistance treatment for the concrete pavers submitted by Masolite, Fort Wayne, IN are provided in the chart below. Recommendations are based on the treatments that proved most effective for providing stain repellency on the submitted concrete pavers.

Sample	Stain Repellent	Maintenance Cleaner
"LaPorte C. Cobble SQ" "F. Beige DCM Rect" "S. Grey DCM SQ" "Charcoal Holland" "Rose Holland"	Stand Off <sup>®</sup> Stone, Tile & Masonry Protector (STMP) OR Stand Off <sup>®</sup> SLX100 Water & Oil Repellent	Enviro Klean <sup>®</sup> 2010 All Surface Cleaner (1:10)
"B. Beige Bergerac Rect"	Stand Off <sup>®</sup> SLX100 Water & Oil Repellent	

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

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





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#### **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 breatheability.

**Stand Off<sup>®</sup> 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 that enhances the natural beauty of treated surfaces.

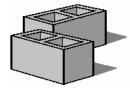
#### Sample Preparation - Color Enhancement

Samples were cleaned with Enviro Klean<sup>®</sup> 2010 All Surface Cleaner diluted with 10 parts water, allowed to dry and absorb atmospheric moisture for 24 hours prior to treatment.

#### **Test Method** – Color Enhancement

The color enhancing products were applied by brush in accordance with the application instructions in the 2005 PROSOCO, Inc. Product Guide.





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#### <u>Test Results</u> – Color Enhancement

Sample	Sure Klean <sup>®</sup> Paver Enhancer	Stand Off <sup>®</sup> Gloss 'N Guard
"B. Beige Bergerac Rect"	3	2
"LaPorte C. Cobble SQ"	3	1
"F. Beige DCM Rect"	3	2
"S. Grey DCM SQ"	3	2
"Charcoal Holland"	3	2
"Rose Holland"	3	2

Scale: 0- No enhancement; dull

1- Slight Enhancement

2- Moderate Enhancement

3- Significant Enhancement



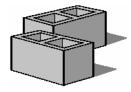
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#### **Photographs** – Color Enhancement

"F. Beige DCM Rect"; Color Enhancement Treatments Applied







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#### **Recommendations** – Color Enhancement

Recommendations for color enhancement for the concrete pavers submitted by Masolite, Fort Wayne, IN are provided in the chart below. Recommendations are based on the treatment that proved most effective in providing color enhancement to the submitted samples.

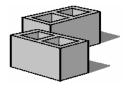
Sample	Color Enhancement
All Submitted Concrete Pavers	Sure Klean <sup>®</sup> Paver Enhancer

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.

Christopher A. Moore

Project Testing Laboratory Technician

CAM



### Laboratory Report

### **Pallet Tag Program Evaluation**

Masolite Fort Wayne, IN

Project No. 0505-12 PTP

Prepared For:

Masolite 2200 Lafontain Street Fort Wayne, IN 46802

Prepared By:

PROSOCO, Inc. July 2005