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**Attachments**

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

**Submitted Information****For:** Brian Koenings**Subject:** Stonecraft Industries  
Wixom, MI**Date:** May 11, 2009**Project:** 0901-03 PTP**Samples Submitted:** 26 types of manufactured stone of various size, shape, and color

Name
"Fieldstone Bucktown"
"Fieldstone Canyon Gray"
"Fieldstone Colorado"
"Fieldstone Mountain"
"Fieldstone Pennsylvania"
"Fieldstone Valley Forge"
"Fieldstone Warm Springs"
"Heritage Bucktown"
"Heritage Chardonnay"
"Heritage Gray Flat"
"Heritage Ohio Flat"
"Heritage Old Ohio Flat"
"Heritage Penn State"
"Heritage Pennsylvania"
"Heritage Tan Flat"
"Heritage Warm Springs"
"Heritage Wisconsin"
"Lakestone Calumet Flat"
"Quartz French Country"
"Quartz Pennsylvania"
"Quartz Valley Forge"
"River Rock Adirondack"
"Top Rock Brown"
"Top Rock Pennsylvania"
"Top Rock Realen"
"Top Rock Warm Spring Flats"

Note: All submitted samples varied by size, shape, and color.

Submitted by: Brian Koenings

## Introduction

Architectural Materials Testing (AMT) Laboratories is a Boyer Industries company that provides laboratory testing and consulting services for the construction industry. Laboratory testing includes evaluating chemical cleaning products and protective treatments for a variety of new and existing architectural materials.

This report includes descriptions of the PROSOCO, Inc. products and test methods that were used. Following test results and conclusions, the report provides recommendations for the most effective products and procedures.

## Purpose of Testing

Twenty-six types of manufactured stone samples were submitted to AMT Laboratories by PROSOCO, Inc. with a request to determine if application of the products evaluated will produce any surface alterations during new construction cleaning operations. Additionally, the effectiveness of water repellent, graffiti repellent, and stain repellent products suitable for manufactured stone was evaluated.

**New Construction Cleaning** – Sure Klean® Vana Trol® and Sure Klean® Manufactured Stone Cleaner were tested at various dilutions to determine the optimum cleaner/cure time combination for complete removal of laboratory applied Type S and Type N mortar from the submitted manufactured stone while limiting surface alterations. The surface alteration evaluation was visually determined based upon perceived discoloration or erosion/etching of the samples.

To simulate new construction soiling, the samples were placed on a bench with finished surface facing upward. Hollow cylinders measuring 50 mm in diameter and 75 mm tall were positioned on top of the samples and filled with a wet mixture of Type S or Type N cementitious mortar. The wet mortar-filled cylinder was allowed to remain in contact with the samples for 10 minutes before removal.

Heavy deposits of mortar were removed with dry scraping after 24 hours. Prepared cleaning solutions were then evaluated for their effectiveness in removing residual Type N Mortar after 7, 14, and 21 days of curing and Type S mortar after 3, 7, and 14 days of curing. A visual examination was also made to determine if the tested cleaners caused any surface alterations to the submitted samples based on the following:

**Surface Finish Removal** is the visual examination of the sample comparing the surface finish of the untreated control surface to the surface finish cleaned with selected product(s) at given dilutions.

**Substrate Deterioration** is the visual examination of the sample comparing the surface of the untreated control to surfaces cleaned with selected product(s) at given dilutions looking for any potential erosion/digestion of the sample.

**Color Change** is the visual examination comparing the color of the untreated control surface to color of surfaces cleaned with selected products at given dilutions.

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

**Protective Water Repellents** – Stand Off® SLX100™ Water & Oil Repellent, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II, Sure Klean® Weather Seal Weather Seal GP, and Sure Klean® Weather Seal Siloxane PD were evaluated for their ability to provide water repellency to the submitted manufactured stone.

**Graffiti Repellency** – Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II was evaluated for graffiti resistance on the submitted manufactured stone. Enviro Klean® SafStrip® 8, Sure Klean® Fast Acting Stripper, and Defacer Eraser® Graffiti Wipe were evaluated for their ability to remove graffiti from the submitted manufactured stone.

**Stain Repellency** – Stand Off® SLX100™ Water & Oil Repellent was evaluated for its ability to repel stains from the submitted samples.

**Products Evaluated****New Construction Cleaning Products Evaluated**

Sample	Product	Dilution
All Submitted Manufactured Stone Samples	Sure Klean® Vana Trol®	1:6
		1:8
	Sure Klean® Manufactured Stone Cleaner	1:2
		1:3

**Protective Water Repellency Products Evaluated**

Sample	Product	Dilution
All Submitted Manufactured Stone Samples	Stand Off® SLX100™ Water & Oil Repellent	Concentrate
	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	Concentrate
	Sure Klean® Weather Seal Weather Seal GP	Concentrate
	Sure Klean® Weather Seal Siloxane PD	Concentrate

**Graffiti Repellency Products Evaluated**

Sample	Product	Dilution
All Submitted Manufactured Stone Samples	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	Concentrate

**Graffiti Removal Products Evaluated**

Sample	Product	Dilution
All Submitted Manufactured Stone Samples	Enviro Klean® SafStrip® 8	Concentrate
	Sure Klean® Fast Acting Stripper	Concentrate
	Defacer Eraser® Graffiti Wipe	Concentrate

**Stain Repellency Products Evaluated**

Sample	Product	Dilution
All Submitted Manufactured Stone Samples	Stand Off® SLX100™ Water & Oil Repellent	Concentrate

## **New Construction Cleaning**

These cleaning trials were conducted to determine the optimal cleaning/cure time combination to most efficiently remove Type S and Type N mortar from the submitted manufactured stone while limiting surface alterations to the manufactured stone surface.

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

**Sure Klean® Vana Trol®** – A concentrated acidic cleaner for new masonry surfaces that are subject to vanadium, manganese and other metallic stains. Use on: gray, brown, white, and most light-colored brick; natural stone; cast stone. Dissolves mortar smears and construction dirt quickly, leaving the masonry clean and uniform with no acid burning or streaking. Liquid concentrate for dilution with 4-10 parts water. Apply by brush or low-pressure spray.

**Sure Klean® Manufactured Stone Cleaner** – removes common construction and atmospheric staining from manufactured stone and other architectural concrete surfaces. This general-purpose, non-etching acidic cleaner removes mortar smears, rust, mud, atmospheric dirt and other construction related soiling without altering the surface texture. Manufactured Stone Cleaner enhances the color intensity of integrally colored concrete.

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### **Sample Preparation – New Construction Cleaning**

Type S and Type N Mortar were prepared in compliance with the manufacturer's instructions, applied to the samples and allowed to cure. 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. The removal of Type N masonry mortar was visually evaluated after 7, 14, and 21 days of curing. A visual examination was also made to the manufactured stone to determine if the products tested caused any change to the surface of the stone.

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

New construction cleaners were evaluated using the following procedure:

1. Pre-wet the surface with water.
2. Apply the cleaner.
3. Allow the appropriate dwell time, as specified:  
    Sure Klean® Vana Trol® ..... 3-5 minutes  
    Sure Klean® Manufactured Stone Cleaner ..... 3-5 minutes
4. Pressure rinse thoroughly.\*

**\*Pressure Rinsing Equipment** – Masonry washing equipment generating approximately 700-800 psi with a water flow rate of 8 gallons per minute delivered through a 45 degree fan spray tip was used for rinsing.

**Test Results – New Construction Cleaning****Cleaning Effectiveness (% Type S Mortar Removal)**

<b>"Fieldstone Bucktown"</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	90 %	90 %	85 %
	1:8	98 %	85 %	85 %
Sure Klean® Manufactured Stone Cleaner	1:2	50 %	50 %	90 %
	1:3	95 %	20 %	10 %
<b>"Fieldstone Canyon Gray"</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	80 %	100 %	80 %
	1:8	100 %	100 %	100 %
Sure Klean® Manufactured Stone Cleaner	1:2	70 %	100 %	70 %
	1:3	95 %	100 %	90 %
<b>"Fieldstone Colorado"</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	20 %	70 %	50 %
	1:8	95 %	95 %	95 %
Sure Klean® Manufactured Stone Cleaner	1:2	40 %	95 %	40 %
	1:3	20 %	10 %	60 %
<b>"Fieldstone Mountain"</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	100 %	98 %	98 %
	1:8	70 %	60 %	80 %
Sure Klean® Manufactured Stone Cleaner	1:2	10 %	40 %	98 %
	1:3	10 %	10 %	80 %
<b>"Fieldstone Pennsylvania"</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	90 %	98 %	90 %
	1:8	95 %	95 %	95 %
Sure Klean® Manufactured Stone Cleaner	1:2	80 %	90 %	90 %
	1:3	98 %	90 %	60 %
<b>"Fieldstone Valley Forge"</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	85 %	85 %	90 %
	1:8	100 %	75 %	75 %
Sure Klean® Manufactured Stone Cleaner	1:2	50 %	85 %	85 %
	1:3	98 %	95 %	40 %
<b>"Fieldstone Warm Springs"</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	40 %	90 %	30 %
	1:8	90 %	80 %	75 %
Sure Klean® Manufactured Stone Cleaner	1:2	60 %	100 %	60 %
	1:3	20 %	55 %	50 %

Test Results – New Construction Cleaning**Cleaning Effectiveness (% Type S Mortar Removal)**

<b>“Heritage Bucktown”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	80 %	20 %	90 %
	1:8	98 %	55%	85%
Sure Klean® Manufactured Stone Cleaner	1:2	30 %	30 %	20 %
	1:3	30 %	40%	20 %
<b>“Heritage Chardonnay”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	20 %	40 %	30 %
	1:8	40 %	30 %	30 %
Sure Klean® Manufactured Stone Cleaner	1:2	30 %	30 %	25 %
	1:3	30 %	30 %	30 %
<b>“Heritage Gray Flat”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	80 %	80 %	40 %
	1:8	90 %	90 %	85 %
Sure Klean® Manufactured Stone Cleaner	1:2	85 %	95 %	50 %
	1:3	95 %	30 %	40 %
<b>“Heritage Ohio Flat”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	100 %	95 %	95 %
	1:8	90 %	90 %	90 %
Sure Klean® Manufactured Stone Cleaner	1:2	90 %	90 %	80 %
	1:3	70 %	75 %	40 %
<b>“Heritage Old Ohio Flat”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	90 %	85 %	90 %
	1:8	85 %	95 %	65 %
Sure Klean® Manufactured Stone Cleaner	1:2	70 %	65 %	85 %
	1:3	90 %	50 %	50 %
<b>“Heritage Penn State”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	95 %	60 %	30 %
	1:8	50 %	30 %	20 %
Sure Klean® Manufactured Stone Cleaner	1:2	95 %	40 %	20 %
	1:3	85 %	40 %	20 %
<b>“Heritage Pennsylvania”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	95 %	90 %	95 %
	1:8	30 %	20 %	20 %
Sure Klean® Manufactured Stone Cleaner	1:2	95 %	40 %	10 %
	1:3	80 %	40 %	40 %

**Test Results – New Construction Cleaning****Cleaning Effectiveness (% Type S Mortar Removal)**

<b>"Heritage Tan Flat"</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	90 %	95 %	90 %
	1:8	98 %	98 %	90 %
Sure Klean® Manufactured Stone Cleaner	1:2	70 %	20 %	20 %
	1:3	65 %	75 %	65 %
<b>"Heritage Warm Springs"</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	95 %	95 %	20 %
	1:8	80 %	80 %	20 %
Sure Klean® Manufactured Stone Cleaner	1:2	30 %	10 %	80 %
	1:3	20 %	20 %	30 %
<b>"Heritage Wisconsin"</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	95 %	95 %	65 %
	1:8	90 %	85 %	80 %
Sure Klean® Manufactured Stone Cleaner	1:2	85 %	40 %	20 %
	1:3	60 %	60 %	95 %
<b>"Limestone Calumet Flat"</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	98 %	95 %	98 %
	1:8	95 %	98 %	98 %
Sure Klean® Manufactured Stone Cleaner	1:2	90 %	98 %	98 %
	1:3	98 %	98 %	98 %
<b>"Quartz French Country"</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	98 %	95 %	98 %
	1:8	98 %	80 %	85 %
Sure Klean® Manufactured Stone Cleaner	1:2	95 %	60 %	75 %
	1:3	95 %	95 %	95 %
<b>"Quartz Pennsylvania"</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	80 %	80 %	80 %
	1:8	40 %	50 %	20 %
Sure Klean® Manufactured Stone Cleaner	1:2	95 %	10 %	30 %
	1:3	20 %	20 %	10 %
<b>"Quartz Valley Forge"</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	80 %	45 %	35 %
	1:8	20 %	20 %	20 %
Sure Klean® Manufactured Stone Cleaner	1:2	40 %	30 %	95 %
	1:3	80 %	40 %	80 %

Test Results – New Construction Cleaning**Cleaning Effectiveness (% Type S Mortar Removal)**

<b>"River Rock Adirondack"</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	95 %	95 %	98 %
	1:8	98 %	98 %	98 %
Sure Klean® Manufactured Stone Cleaner	1:2	20 %	45 %	40 %
	1:3	90 %	90 %	100 %
<b>"Top Rock Brown"</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	85 %	85 %	90 %
	1:8	90 %	80 %	95 %
Sure Klean® Manufactured Stone Cleaner	1:2	95 %	95 %	90 %
	1:3	85 %	90 %	90 %
<b>"Top Rock Pennsylvania"</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	80 %	80 %	80 %
	1:8	60 %	60 %	70 %
Sure Klean® Manufactured Stone Cleaner	1:2	98 %	80 %	80 %
	1:3	20 %	50 %	40 %
<b>"Top Rock Realen"</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	98 %	40 %	95 %
	1:8	85 %	90 %	80 %
Sure Klean® Manufactured Stone Cleaner	1:2	85 %	80 %	90 %
	1:3	100 %	70 %	90 %
<b>"Top Rock Warm Spring Flats"</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Vana Trol®	1:6	100 %	100 %	90 %
	1:8	95 %	80 %	80 %
Sure Klean® Manufactured Stone Cleaner	1:2	98 %	80 %	80 %
	1:3	60 %	20 %	60 %

Test Results – New Construction Cleaning**Cleaning Effectiveness (% Type N Mortar Removal)**

<b>"Fieldstone Bucktown"</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	98 %	95 %	10 %
	1:8	95 %	98 %	98 %
Sure Klean® Manufactured Stone Cleaner	1:2	80 %	98 %	98 %
	1:3	80 %	100%	98 %
<b>"Fieldstone Canyon Gray"</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	100 %	100 %	100 %
	1:8	100 %	100 %	100 %
Sure Klean® Manufactured Stone Cleaner	1:2	100 %	100 %	100 %
	1:3	100 %	100 %	100 %
<b>"Fieldstone Colorado"</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	100%	100%	100%
	1:8	100%	100%	100%
Sure Klean® Manufactured Stone Cleaner	1:2	100%	100%	100%
	1:3	90 %	100%	100%
<b>"Fieldstone Mountain"</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	100%	100%	98 %
	1:8	100%	100%	98 %
Sure Klean® Manufactured Stone Cleaner	1:2	98 %	98 %	90 %
	1:3	100%	95 %	90 %
<b>"Fieldstone Pennsylvania"</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	100%	100%	100%
	1:8	80 %	100%	65 %
Sure Klean® Manufactured Stone Cleaner	1:2	100%	100%	100%
	1:3	100%	100%	100%
<b>"Fieldstone Valley Forge"</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	100%	100%	100%
	1:8	100%	100%	100%
Sure Klean® Manufactured Stone Cleaner	1:2	95 %	85 %	100%
	1:3	90 %	85 %	100%
<b>"Fieldstone Warm Springs"</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	100%	100%	100%
	1:8	100%	100%	90 %
Sure Klean® Manufactured Stone Cleaner	1:2	100 %	100 %	100 %
	1:3	100%	100%	100%

Test Results – New Construction Cleaning**Cleaning Effectiveness (% Type N Mortar Removal)**

<b>“Heritage Bucktown”</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	98 %	98 %	20 %
	1:8	98 %	90 %	20 %
Sure Klean® Manufactured Stone Cleaner	1:2	45 %	60 %	20 %
	1:3	45 %	60 %	20 %
<b>“Heritage Chardonnay”</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	60 %	20 %	30 %
	1:8	95 %	95 %	60 %
Sure Klean® Manufactured Stone Cleaner	1:2	98 %	40 %	40 %
	1:3	40 %	45 %	30 %
<b>“Heritage Gray Flat”</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	50 %	10 %	80 %
	1:8	80 %	90 %	90 %
Sure Klean® Manufactured Stone Cleaner	1:2	95 %	10 %	20 %
	1:3	30 %	10 %	20 %
<b>“Heritage Ohio Flat”</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	90 %	90 %	85 %
	1:8	90 %	60 %	95 %
Sure Klean® Manufactured Stone Cleaner	1:2	90 %	40 %	95 %
	1:3	85 %	65 %	80 %
<b>“Heritage Old Ohio Flat”</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	40 %	80 %	80 %
	1:8	80 %	90 %	60 %
Sure Klean® Manufactured Stone Cleaner	1:2	40 %	40 %	50 %
	1:3	40 %	40 %	65 %
<b>“Heritage Penn State”</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	80 %	30 %	55 %
	1:8	40 %	60 %	80 %
Sure Klean® Manufactured Stone Cleaner	1:2	70 %	75 %	60 %
	1:3	40 %	95 %	40 %
<b>“Heritage Pennsylvania”</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	85 %	90 %	80 %
	1:8	30 %	65 %	20 %
Sure Klean® Manufactured Stone Cleaner	1:2	20 %	80 %	85 %
	1:3	55 %	20 %	50 %

Test Results – New Construction Cleaning**Cleaning Effectiveness (% Type N Mortar Removal)**

<b>"Heritage Tan Flat"</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	98 %	90 %	85 %
	1:8	40 %	40 %	50 %
Sure Klean® Manufactured Stone Cleaner	1:2	45 %	40 %	20 %
	1:3	40 %	40 %	30 %
<b>"Heritage Warm Springs"</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	100 %	90 %	60 %
	1:8	100 %	100 %	20 %
Sure Klean® Manufactured Stone Cleaner	1:2	100 %	98 %	40 %
	1:3	100 %	80 %	40 %
<b>"Heritage Wisconsin"</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	80 %	80 %	90 %
	1:8	80 %	70 %	80 %
Sure Klean® Manufactured Stone Cleaner	1:2	85 %	30 %	70 %
	1:3	85 %	70 %	70 %
<b>"Limestone Calumet Flat"</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	100 %	100 %	100 %
	1:8	95 %	100 %	100 %
Sure Klean® Manufactured Stone Cleaner	1:2	100 %	100 %	100 %
	1:3	98 %	100 %	100 %
<b>"Quartz French Country"</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	40 %	40 %	60 %
	1:8	60 %	70 %	70 %
Sure Klean® Manufactured Stone Cleaner	1:2	80 %	85 %	75 %
	1:3	70 %	85 %	70 %
<b>"Quartz Pennsylvania"</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	100 %	100 %	100 %
	1:8	60 %	60 %	60 %
Sure Klean® Manufactured Stone Cleaner	1:2	90 %	95 %	90 %
	1:3	100 %	85 %	80 %
<b>"Quartz Valley Forge"</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	100 %	100 %	98 %
	1:8	100 %	98 %	100 %
Sure Klean® Manufactured Stone Cleaner	1:2	100 %	100 %	98 %
	1:3	85 %	100 %	98 %

**Test Results – New Construction Cleaning****Cleaning Effectiveness (% Type N Mortar Removal)**

<b>"River Rock Adirondack"</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	100 %	100 %	100 %
	1:8	100 %	98 %	100 %
Sure Klean® Manufactured Stone Cleaner	1:2	100 %	100 %	100 %
	1:3	100 %	100 %	100 %
<b>"Top Rock Brown"</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	95 %	100 %	100 %
	1:8	100 %	100 %	100 %
Sure Klean® Manufactured Stone Cleaner	1:2	98 %	98 %	98 %
	1:3	98 %	98 %	98 %
<b>"Top Rock Pennsylvania"</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	85 %	95 %	100 %
	1:8	98 %	98 %	100 %
Sure Klean® Manufactured Stone Cleaner	1:2	100 %	100 %	100 %
	1:3	98 %	98 %	100 %
<b>"Top Rock Realen"</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	100 %	98 %	100 %
	1:8	100 %	98 %	98 %
Sure Klean® Manufactured Stone Cleaner	1:2	98 %	100 %	98 %
	1:3	98 %	100 %	100 %
<b>"Top Rock Warm Spring Flats"</b>				
<b>Product</b>	<b>Dilution</b>	<b>7 day</b>	<b>14 day</b>	<b>21 day</b>
Sure Klean® Vana Trol®	1:6	95 %	95 %	100 %
	1:8	100 %	100 %	100 %
Sure Klean® Manufactured Stone Cleaner	1:2	98 %	100 %	98 %
	1:3	100 %	100 %	100 %

Test Results – Limiting Surface Alterations

<b>“Fieldstone Bucktown”</b>					
<b>Product</b>	<b>Dilution</b>	<b>Surface Finish Removal</b>	<b>Substrate Deterioration</b>	<b>Color Change</b>	<b>Staining</b>
Sure Klean® Vana Trol®	1:6	4	0	4	0
	1:8	4	0	4	0
Sure Klean® Manufactured Stone Cleaner	1:2	4	0	4	0
	1:3	4	0	4	1
<b>“Fieldstone Canyon Gray”</b>					
<b>Product</b>	<b>Dilution</b>	<b>Surface Finish Removal</b>	<b>Substrate Deterioration</b>	<b>Color Change</b>	<b>Staining</b>
Sure Klean® Vana Trol®	1:6	3	0	3	0
	1:8	3	0	3	2
Sure Klean® Manufactured Stone Cleaner	1:2	3	0	3	0
	1:3	3	0	3	2
<b>“Fieldstone Colorado”</b>					
<b>Product</b>	<b>Dilution</b>	<b>Surface Finish Removal</b>	<b>Substrate Deterioration</b>	<b>Color Change</b>	<b>Staining</b>
Sure Klean® Vana Trol®	1:6	4	0	4	4
	1:8	4	0	4	3
Sure Klean® Manufactured Stone Cleaner	1:2	4	0	4	0
	1:3	4	0	4	0
<b>“Fieldstone Mountain”</b>					
<b>Product</b>	<b>Dilution</b>	<b>Surface Finish Removal</b>	<b>Substrate Deterioration</b>	<b>Color Change</b>	<b>Staining</b>
Sure Klean® Vana Trol®	1:6	3	0	3	0
	1:8	3	0	3	2
Sure Klean® Manufactured Stone Cleaner	1:2	3	0	3	0
	1:3	3	0	3	2
<b>“Fieldstone Pennsylvania”</b>					
<b>Product</b>	<b>Dilution</b>	<b>Surface Finish Removal</b>	<b>Substrate Deterioration</b>	<b>Color Change</b>	<b>Staining</b>
Sure Klean® Vana Trol®	1:6	4	0	4	2
	1:8	4	0	4	2
Sure Klean® Manufactured Stone Cleaner	1:2	4	0	4	0
	1:3	4	0	4	0
<b>“Fieldstone Valley Forge”</b>					
<b>Product</b>	<b>Dilution</b>	<b>Surface Finish Removal</b>	<b>Substrate Deterioration</b>	<b>Color Change</b>	<b>Staining</b>
Sure Klean® Vana Trol®	1:6	4	0	4	3
	1:8	4	0	4	4
Sure Klean® Manufactured Stone Cleaner	1:2	4	0	4	0
	1:3	4	0	4	0

0 – No Change      2 – Change – Moderate    4 – Change – Excessive  
 1 – Change – Slight    3 – Change – Heavy

Test Results – Limiting Surface Alterations

“Fieldstone Warm Springs”					
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean® Vana Trol®	1:6	4	0	4	0
	1:8	4	0	4	4
Sure Klean® Manufactured Stone Cleaner	1:2	4	0	4	0
	1:3	4	0	4	0
“Heritage Bucktown”					
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean® Vana Trol®	1:6	4	0	4	0
	1:8	4	0	4	0
Sure Klean® Manufactured Stone Cleaner	1:2	4	0	4	0
	1:3	4	0	4	0
“Heritage Chardonnay”					
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean® Vana Trol®	1:6	4	0	4	0
	1:8	4	0	4	0
Sure Klean® Manufactured Stone Cleaner	1:2	3	0	3	0
	1:3	4	0	4	2
“Heritage Gray Flat”					
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean® Vana Trol®	1:6	3	0	3	0
	1:8	4	0	4	0
Sure Klean® Manufactured Stone Cleaner	1:2	4	0	4	0
	1:3	4	0	4	0
“Heritage Ohio Flat”					
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean® Vana Trol®	1:6	3	0	3	0
	1:8	4	0	4	0
Sure Klean® Manufactured Stone Cleaner	1:2	3	0	3	0
	1:3	4	0	4	0

0 – No Change  
1 – Change – Slight

2 – Change – Moderate  
3 – Change – Heavy

4 – Change – Excessive

Test Results – Limiting Surface Alterations

<b>“Heritage Old Ohio Flat”</b>					
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean® Vana Trol®	1:6	4	0	4	0
	1:8	3	0	3	0
Sure Klean® Manufactured Stone Cleaner	1:2	3	0	3	0
	1:3	4	0	4	0
<b>“Heritage Penn State”</b>					
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean® Vana Trol®	1:6	4	0	4	0
	1:8	4	0	4	0
Sure Klean® Manufactured Stone Cleaner	1:2	4	0	4	0
	1:3	4	0	4	1
<b>“Heritage Pennsylvania”</b>					
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean® Vana Trol®	1:6	4	0	4	0
	1:8	4	0	4	0
Sure Klean® Manufactured Stone Cleaner	1:2	4	0	4	0
	1:3	4	0	4	4
<b>“Heritage Tan Flat”</b>					
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean® Vana Trol®	1:6	3	0	3	0
	1:8	4	0	4	0
Sure Klean® Manufactured Stone Cleaner	1:2	4	0	4	0
	1:3	4	0	4	0
<b>“Heritage Warm Springs”</b>					
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean® Vana Trol®	1:6	4	0	4	0
	1:8	4	0	4	0
Sure Klean® Manufactured Stone Cleaner	1:2	4	0	4	0
	1:3	4	0	4	0
<b>“Heritage Wisconsin”</b>					
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean® Vana Trol®	1:6	4	0	4	0
	1:8	4	0	4	0
Sure Klean® Manufactured Stone Cleaner	1:2	3	0	3	0
	1:3	4	0	4	0

0 – No Change  
1 – Change – Slight

2 – Change – Moderate  
3 – Change – Heavy

4 – Change – Excessive

Test Results – Limiting Surface Alterations

<b>“Lakestone Calumet Flat”</b>					
<b>Product</b>	<b>Dilution</b>	<b>Surface Finish Removal</b>	<b>Substrate Deterioration</b>	<b>Color Change</b>	<b>Staining</b>
Sure Klean® Vana Trol®	1:6	4	0	4	0
	1:8	3	0	3	0
Sure Klean® Manufactured Stone Cleaner	1:2	3	0	3	0
	1:3	3	0	3	0
<b>“Quartz French Country”</b>					
<b>Product</b>	<b>Dilution</b>	<b>Surface Finish Removal</b>	<b>Substrate Deterioration</b>	<b>Color Change</b>	<b>Staining</b>
Sure Klean® Vana Trol®	1:6	4	0	4	0
	1:8	4	0	4	0
Sure Klean® Manufactured Stone Cleaner	1:2	4	0	4	0
	1:3	4	0	4	0
<b>“Quartz Pennsylvania”</b>					
<b>Product</b>	<b>Dilution</b>	<b>Surface Finish Removal</b>	<b>Substrate Deterioration</b>	<b>Color Change</b>	<b>Staining</b>
Sure Klean® Vana Trol®	1:6	4	0	4	1
	1:8	4	0	4	0
Sure Klean® Manufactured Stone Cleaner	1:2	4	0	4	1
	1:3	4	0	4	0
<b>“Quartz Valley Forge”</b>					
<b>Product</b>	<b>Dilution</b>	<b>Surface Finish Removal</b>	<b>Substrate Deterioration</b>	<b>Color Change</b>	<b>Staining</b>
Sure Klean® Vana Trol®	1:6	4	0	4	1
	1:8	4	0	4	0
Sure Klean® Manufactured Stone Cleaner	1:2	4	0	4	0
	1:3	4	0	4	2
<b>“River Rock Adirondack”</b>					
<b>Product</b>	<b>Dilution</b>	<b>Surface Finish Removal</b>	<b>Substrate Deterioration</b>	<b>Color Change</b>	<b>Staining</b>
Sure Klean® Vana Trol®	1:6	4	0	4	0
	1:8	4	0	4	0
Sure Klean® Manufactured Stone Cleaner	1:2	3	0	3	0
	1:3	2	0	2	0
<b>“Top Rock Brown”</b>					
<b>Product</b>	<b>Dilution</b>	<b>Surface Finish Removal</b>	<b>Substrate Deterioration</b>	<b>Color Change</b>	<b>Staining</b>
Sure Klean® Vana Trol®	1:6	4	0	4	0
	1:8	4	0	4	0
Sure Klean® Manufactured Stone Cleaner	1:2	4	0	4	0
	1:3	4	0	4	0

0 – No Change  
1 – Change – Slight

2 – Change – Moderate  
3 – Change – Heavy

4 – Change – Excessive

Test Results – Limiting Surface Alterations

<b>“Top Rock Pennsylvania”</b>					
<b>Product</b>	<b>Dilution</b>	<b>Surface Finish Removal</b>	<b>Substrate Deterioration</b>	<b>Color Change</b>	<b>Staining</b>
Sure Klean® Vana Trol®	1:6	4	0	4	0
	1:8	4	0	4	0
Sure Klean® Manufactured Stone Cleaner	1:2	3	0	3	0
	1:3	2	0	2	0

<b>“Top Rock Realen”</b>					
<b>Product</b>	<b>Dilution</b>	<b>Surface Finish Removal</b>	<b>Substrate Deterioration</b>	<b>Color Change</b>	<b>Staining</b>
Sure Klean® Vana Trol®	1:6	4	0	4	0
	1:8	4	0	4	1
Sure Klean® Manufactured Stone Cleaner	1:2	4	0	4	1
	1:3	4	0	4	0

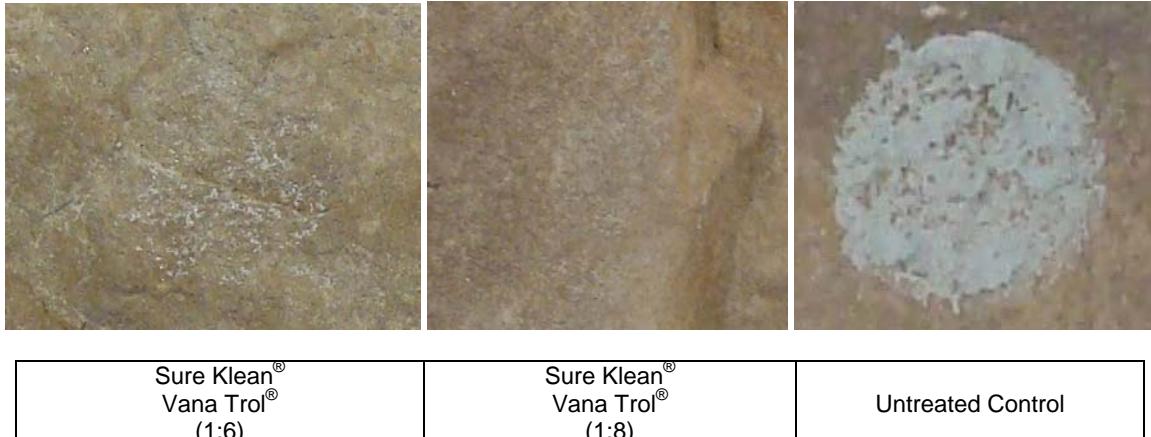
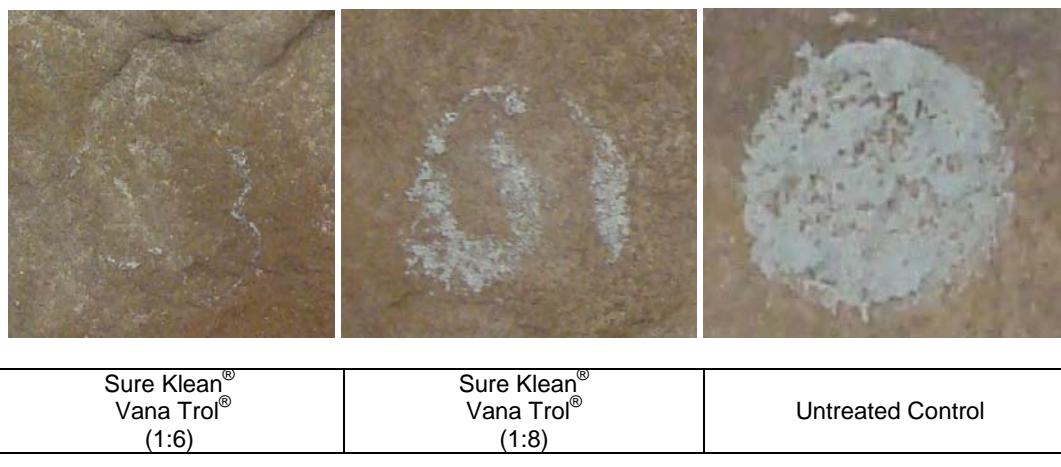
  

<b>“Top Rock Warm Spring Flats”</b>					
<b>Product</b>	<b>Dilution</b>	<b>Surface Finish Removal</b>	<b>Substrate Deterioration</b>	<b>Color Change</b>	<b>Staining</b>
Sure Klean® Vana Trol®	1:6	4	0	4	0
	1:8	4	0	4	0
Sure Klean® Manufactured Stone Cleaner	1:2	4	0	4	1
	1:3	4	0	4	0

0 – No Change  
1 – Change – Slight

2 – Change – Moderate  
3 – Change – Heavy

4 – Change – Excessive

**Photographs – New Construction Cleaning****“Fieldstone Valley Forge”; 3 Day Cleaning; Type S Mortar****“Fieldstone Valley Forge”; 7 Day Cleaning; Type S Mortar****“Fieldstone Valley Forge”; 14 Day Cleaning; Type S Mortar**

**Photographs – New Construction Cleaning****“Fieldstone Valley Forge”; 7 Day Cleaning; Type N Mortar**

Sure Klean® Vana Trol® (1:6)	Sure Klean® Vana Trol® (1:8)	Untreated Control
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**“Fieldstone Valley Forge”; 14 Day Cleaning; Type N Mortar**

Sure Klean® Vana Trol® (1:6)	Sure Klean® Vana Trol® (1:8)	Untreated Control
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**“Fieldstone Valley Forge”; 21 Day Cleaning; Type N Mortar**

Sure Klean® Vana Trol® (1:6)	Sure Klean® Vana Trol® (1:8)	Untreated Control
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**Photographs – New Construction Cleaning****“Fieldstone Valley Forge”; 3 Day Cleaning; Type S Mortar**

Sure Klean® Manufactured Stone Cleaner (1:2)	Sure Klean® Manufactured Stone Cleaner (1:3)	Untreated Control
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**“Fieldstone Valley Forge”; 7 Day Cleaning; Type S Mortar**

Sure Klean® Manufactured Stone Cleaner (1:2)	Sure Klean® Manufactured Stone Cleaner (1:3)	Untreated Control
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**“Fieldstone Valley Forge”; 14 Day Cleaning; Type S Mortar**

Sure Klean® Manufactured Stone Cleaner (1:2)	Sure Klean® Manufactured Stone Cleaner (1:3)	Untreated Control
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**Photographs – New Construction Cleaning****“Fieldstone Valley Forge”; 7 Day Cleaning; Type N Mortar**

Sure Klean® Manufactured Stone Cleaner (1:2)	Sure Klean® Manufactured Stone Cleaner (1:3)	Untreated Control
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**“Fieldstone Valley Forge”; 14 Day Cleaning; Type N Mortar**

Sure Klean® Manufactured Stone Cleaner (1:2)	Sure Klean® Manufactured Stone Cleaner (1:3)	Untreated Control
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**“Fieldstone Valley Forge”; 21 Day Cleaning; Type N Mortar**

Sure Klean® Manufactured Stone Cleaner (1:2)	Sure Klean® Manufactured Stone Cleaner (1:3)	Untreated Control
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**Photographs – Limiting Surface Alterations****“Heritage Chardonnay”**

Sure Klean® Manufactured Stone Cleaner (1:2)	Uncleaned Control
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Sure Klean® Manufactured Stone Cleaner (1:3)	Uncleaned Control
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**Photographs – Limiting Surface Alterations****“Heritage Chardonnay”**

Sure Klean® Vana Trol® (1:6)	Uncleaned Control
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Sure Klean® Vana Trol® (1:8)	Uncleaned Control
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**Photographs – Limiting Surface Alterations****“Top Rock Brown”**

Sample as Submitted



Dry Brush Scrubbing

Wet Brush Scrubbing

Pressure Rinsed

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

Based on the test results, all of the submitted samples were efficiently cleaned with Sure Klean® Vana Trol® and Sure Klean® Manufactured Stone Cleaner. However, Sure Klean® Vana Trol® and Sure Klean® Manufactured Stone Cleaner caused an excessive color change due to surface pigment removal. Even dry and wet brush scrubbing alone and high pressure rinsing alone removed heavy amounts of surface pigment.

### **Recommendations – New Construction Cleaning**

Recommendations for cleaning for the manufactured stone submitted by Stonecraft Industries, Wixom, MI are provided in the chart below. Recommendations are based on the optimum dilution for complete removal of mortar while limiting surface alterations.

Sample	New Construction Cleaning (Type S Mortar, 7 Day Cleaning)	New Construction Cleaning (Type N Mortar, 14 Day Cleaning)
“Fieldstone Bucktown”		
“Fieldstone Canyon Gray”		
“Fieldstone Colorado”		
“Fieldstone Mountain”		
“Fieldstone Pennsylvania”		
“Fieldstone Valley Forge”		
“Fieldstone Warm Springs”		
“Heritage Bucktown”		
“Heritage Chardonnay”		
“Heritage Gray Flat”		
“Heritage Ohio Flat”		
“Heritage Old Ohio Flat”		
“Heritage Penn State”	No Recommendations - Due to surface pigment removal	No Recommendations - Due to surface pigment removal
“Heritage Pennsylvania”		
“Heritage Tan Flat”		
“Heritage Warm Springs”		
“Heritage Wisconsin”		
“Limestone Calumet Flat”		
“Quartz French Country”		
“Quartz Pennsylvania”		
“Quartz Valley Forge”		
“River Rock Adirondack”		
“Top Rock Brown”		
“Top Rock Pennsylvania”		
“Top Rock Realen”		
“Top Rock Warm Spring Flats”		

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

### **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**

**Stand Off® SLX100™ Water & Oil Repellent** is a combination of water and oil repellency on most substrates to prevent staining by waterborne and oily substances. This modified “heat” 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.

**Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II** is a clear-drying, water-based silicone emulsion for weatherproofing concrete block and other porous masonry materials. Blok-Guard® & Graffiti Control II protects interior and exterior masonry surfaces from graffiti attacks without altering the natural appearance. Blok-Guard® & Graffiti Control II also protects exterior walls exposed to normal weathering. Graffiti removal from treated surfaces is fast and easy using Defacer Eraser® Graffiti Wipe. Blok-Guard® & Graffiti Control II is easy to apply with low-pressure spray, brush or roller.

**Sure Klean® Weather Seal GP** is an economical, ready-to-use, water-based silane/siloxane water repellent for concrete, stucco, and most masonry surfaces. Weather Seal GP helps masonry resist cracking, spalling, staining and other damage related to water intrusion. Low odor and alkaline stable, Weather Seal GP is ideal for many field applications.

**Sure Klean® Weather Seal Siloxane PD** (predilute) is a ready-to-use, water-based silane/siloxane water repellent for concrete and most masonry and stucco surfaces. Siloxane PD will not impair the natural breathing characteristics of treated surfaces. It helps masonry resist cracking, spalling, staining and other damage related to water intrusion. Low odor and alkaline stable, Siloxane PD is ideal for field and in-plant application.

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### **Sample Preparation – Protective Water Repellents**

The submitted samples were scored and allowed to dry for at least 24 hours prior to treatment. All treatments were applied by brush in accordance with the current PROSOCO, Inc. Product Data Sheet application instructions. All treatments were allowed to cure for at least 72 hours prior to testing.

**Test Methods – Protective Water Repellents****Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes**

The water absorption tube test simulating wind driven and windblown rain conditions was performed. Tests were run with vertical 5.0-milliliter head pressures. Filled to 5.0 milliliters, a water absorption tube produces a 103 mph dynamic wind pressure. See RILEM II.4 Tech Note for additional information.

The ranking system used to evaluate the effectiveness of the products applied to each submitted sample is as follows:

**AA** = "Above Average" correlates to less than or equal to 20% of the maximum untreated absorption.

**A** = "Average" correlates to less than or equal to 50% of the maximum untreated absorption.

**BA** = "Below Average" correlates to greater than 50% of the maximum untreated absorption.

**EXAMPLE:** If RILEM tubes applied to an untreated sample result in loss of 5.0 mL of water or more, then:

A rating of **AA** Above Average water repellent performance would be reported for treatments which result in a loss of no more than:

$$5.0 \text{ mL} \times 20\% = 1.0 \text{ mL}$$

A rating of **A** Average water repellent performance would be reported for treatments which result in a loss of no more than:

$$5.0 \text{ mL} \times 50\% = 2.5 \text{ mL}$$

A rating of **BA** Below Average water repellent performance would be reported for treatments which result in a loss of more than:

$$5.0 \text{ mL} \times 50\% = 2.5 \text{ mL}$$

**Test Results – Protective Water Repellents****Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes****AA = Above Average****A = Average****BA = Below Average**

<b>“Fieldstone Bucktown”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.6	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.3	<b>A</b>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.4	<b>BA</b>
Sure Klean® Weather Seal Siloxane PD	- 0.4	<b>BA</b>
Sure Klean® Weather Seal Weather Seal GP	- 0.4	<b>BA</b>

<b>“Fieldstone Canyon Gray”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.6	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.5	<b>BA</b>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.3	<b>A</b>
Sure Klean® Weather Seal Siloxane PD	- 1.6	<b>BA</b>
Sure Klean® Weather Seal Weather Seal GP	- 0.5	<b>BA</b>

<b>“Fieldstone Colorado”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.5	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.1	<b>AA</b>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.2	<b>A</b>
Sure Klean® Weather Seal Siloxane PD	- 0.3	<b>BA</b>
Sure Klean® Weather Seal Weather Seal GP	- 0.8	<b>BA</b>

**Test Results – Protective Water Repellents****Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes****AA = Above Average****A = Average****BA = Below Average**

<b>“Fieldstone Mountain”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.7	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.3	<u>A</u>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.2	<u>A</u>
Sure Klean® Weather Seal Siloxane PD	- 0.3	<u>A</u>
Sure Klean® Weather Seal Weather Seal GP	- 0.3	<u>A</u>

<b>“Fieldstone Pennsylvania”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.6	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.3	<u>A</u>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.1	<u>AA</u>
Sure Klean® Weather Seal Siloxane PD	> 5.0	<u>BA</u>
Sure Klean® Weather Seal Weather Seal GP	- 0.4	<u>BA</u>

<b>“Fieldstone Valley Forge”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 2.0	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.3	<u>AA</u>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.3	<u>AA</u>
Sure Klean® Weather Seal Siloxane PD	- 0.2	<u>AA</u>
Sure Klean® Weather Seal Weather Seal GP	- 0.2	<u>AA</u>

**Test Results – Protective Water Repellents****Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes****AA = Above Average****A = Average****BA = Below Average**

<b>“Fieldstone Warm Springs”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 1.4	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.5	<b><u>A</u></b>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.6	<b><u>A</u></b>
Sure Klean® Weather Seal Siloxane PD	- 0.3	<b><u>A</u></b>
Sure Klean® Weather Seal Weather Seal GP	- 0.5	<b><u>A</u></b>

<b>“Heritage Bucktown”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.3	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.2	<b><u>BA</u></b>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.1	<b><u>A</u></b>
Sure Klean® Weather Seal Siloxane PD	- 0.2	<b><u>BA</u></b>
Sure Klean® Weather Seal Weather Seal GP	- 0.2	<b><u>BA</u></b>

<b>“Heritage Chardonnay”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.4	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.0	<b><u>AA</u></b>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.1	<b><u>A</u></b>
Sure Klean® Weather Seal Siloxane PD	- 0.1	<b><u>A</u></b>
Sure Klean® Weather Seal Weather Seal GP	- 0.5	<b><u>BA</u></b>

**Test Results – Protective Water Repellents****Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes****AA = Above Average****A = Average****BA = Below Average**

<b>“Heritage Gray Flat”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 2.4	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.1	<u>AA</u>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.5	<u>AA</u>
Sure Klean® Weather Seal Siloxane PD	- 0.2	<u>AA</u>
Sure Klean® Weather Seal Weather Seal GP	- 0.3	<u>AA</u>

<b>“Heritage Ohio Flat”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.4	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.2	<u>A</u>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.1	<u>A</u>
Sure Klean® Weather Seal Siloxane PD	- 0.1	<u>A</u>
Sure Klean® Weather Seal Weather Seal GP	- 0.2	<u>A</u>

<b>“Heritage Old Ohio Flat”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.5	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.3	<u>BA</u>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.6	<u>BA</u>
Sure Klean® Weather Seal Siloxane PD	- 0.2	<u>A</u>
Sure Klean® Weather Seal Weather Seal GP	- 0.6	<u>BA</u>

**Test Results – Protective Water Repellents****Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes****AA = Above Average****A = Average****BA = Below Average**

<b>“Heritage Penn State”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.5	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.0	<b><u>AA</u></b>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 3.1	<b><u>BA</u></b>
Sure Klean® Weather Seal Siloxane PD	- 0.3	<b><u>BA</u></b>
Sure Klean® Weather Seal Weather Seal GP	- 0.3	<b><u>BA</u></b>

<b>“Heritage Pennsylvania”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.9	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.3	<b><u>A</u></b>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.2	<b><u>A</u></b>
Sure Klean® Weather Seal Siloxane PD	- 0.2	<b><u>A</u></b>
Sure Klean® Weather Seal Weather Seal GP	- 0.4	<b><u>A</u></b>

<b>“Heritage Tan Flat”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.6	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.1	<b><u>AA</u></b>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.3	<b><u>A</u></b>
Sure Klean® Weather Seal Siloxane PD	- 0.1	<b><u>AA</u></b>
Sure Klean® Weather Seal Weather Seal GP	- 0.3	<b><u>A</u></b>

**Test Results – Protective Water Repellents****Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes****AA = Above Average****A = Average****BA = Below Average**

<b>“Heritage Warm Springs”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.5	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.0	<u>AA</u>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.5	<u>BA</u>
Sure Klean® Weather Seal Siloxane PD	- 0.1	<u>AA</u>
Sure Klean® Weather Seal Weather Seal GP	- 0.1	<u>AA</u>

<b>“Heritage Wisconsin”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.7	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.0	<u>AA</u>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.7	<u>BA</u>
Sure Klean® Weather Seal Siloxane PD	- 0.3	<u>A</u>
Sure Klean® Weather Seal Weather Seal GP	- 0.6	<u>BA</u>

<b>“Limestone Calumet Flats”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.4	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.1	<u>A</u>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.4	<u>BA</u>
Sure Klean® Weather Seal Siloxane PD	- 0.1	<u>A</u>
Sure Klean® Weather Seal Weather Seal GP	- 0.1	<u>A</u>

**Test Results – Protective Water Repellents****Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes****AA = Above Average****A = Average****BA = Below Average**

<b>“Quartz French Country”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.2	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.1	<b>A</b>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.6	<b>BA</b>
Sure Klean® Weather Seal Siloxane PD	- 0.1	<b>A</b>
Sure Klean® Weather Seal Weather Seal GP	- 0.2	<b>BA</b>

<b>“Quartz Pennsylvania”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.4	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.0	<b>AA</b>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.3	<b>BA</b>
Sure Klean® Weather Seal Siloxane PD	- 0.2	<b>A</b>
Sure Klean® Weather Seal Weather Seal GP	- 0.7	<b>BA</b>

<b>“Quartz Valley Forge”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 1.3	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.1	<b>AA</b>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.1	<b>AA</b>
Sure Klean® Weather Seal Siloxane PD	- 1.3	<b>BA</b>
Sure Klean® Weather Seal Weather Seal GP	- 0.3	<b>A</b>

**Test Results – Protective Water Repellents****Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes****AA = Above Average****A = Average****BA = Below Average**

<b>“River Rock Adirondack”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.4	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.2	<u>A</u>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.1	<u>A</u>
Sure Klean® Weather Seal Siloxane PD	- 0.3	<u>BA</u>
Sure Klean® Weather Seal Weather Seal GP	- 0.5	<u>BA</u>

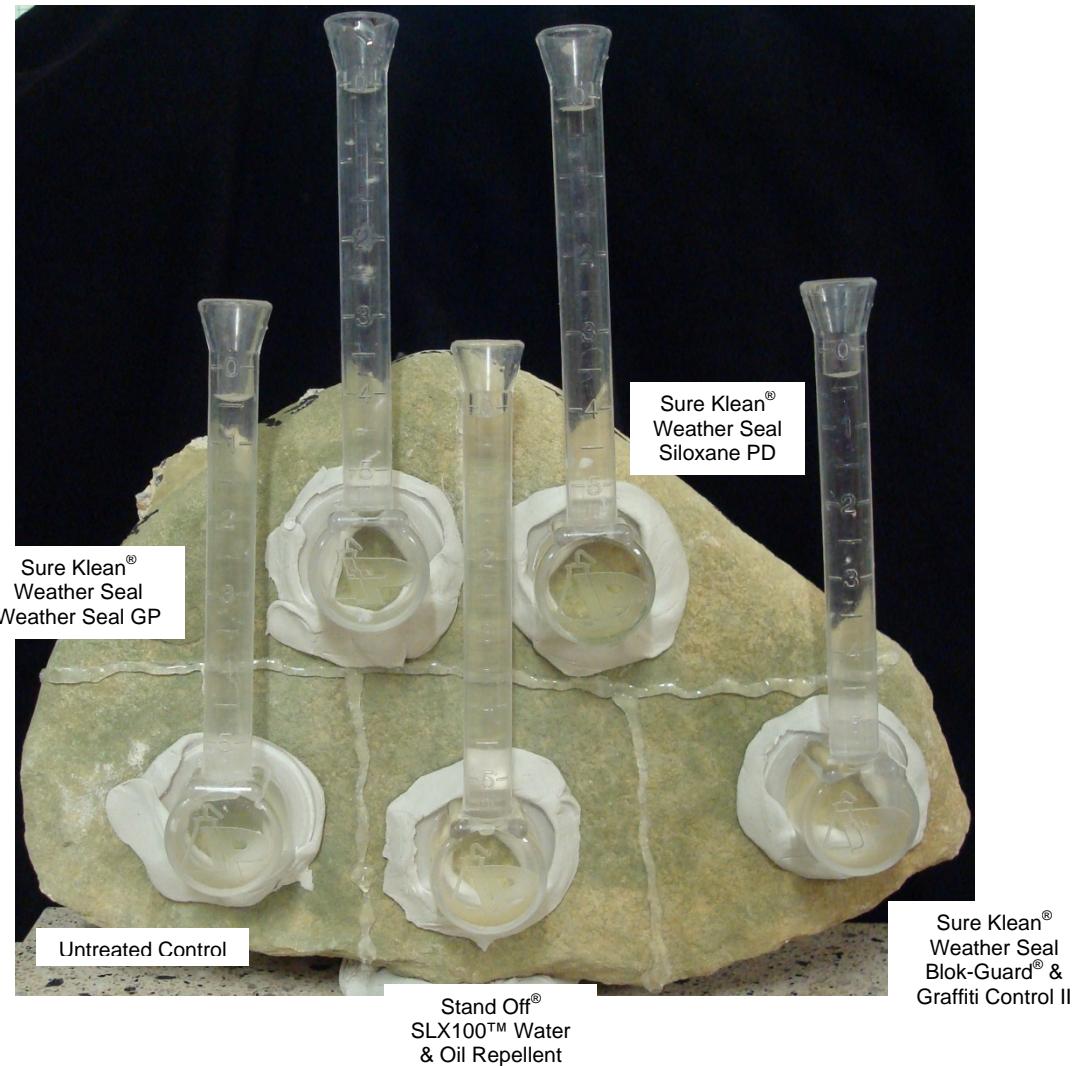
<b>“Top Rock Brown”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.3	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.2	<u>BA</u>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.1	<u>A</u>
Sure Klean® Weather Seal Siloxane PD	- 0.5	<u>BA</u>
Sure Klean® Weather Seal Weather Seal GP	- 0.2	<u>BA</u>

<b>“Top Rock Pennsylvania”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.5	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.1	<u>AA</u>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.3	<u>BA</u>
Sure Klean® Weather Seal Siloxane PD	- 0.2	<u>A</u>
Sure Klean® Weather Seal Weather Seal GP	- 0.5	<u>BA</u>

**Test Results – Protective Water Repellents****Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes****AA = Above Average****A = Average****BA = Below Average**

<b>“Top Rock Realen”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.6	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.0	<b><u>AA</u></b>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.8	<b><u>BA</u></b>
Sure Klean® Weather Seal Siloxane PD	- 0.5	<b><u>BA</u></b>
Sure Klean® Weather Seal Weather Seal GP	- 0.3	<b><u>A</u></b>

<b>“Top Rock Warm Spring Flats”</b>		
	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	- 0.5	--
Stand Off® SLX100™ Water & Oil Repellent	- 0.1	<b><u>AA</u></b>
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	- 0.1	<b><u>AA</u></b>
Sure Klean® Weather Seal Siloxane PD	- 0.7	<b><u>BA</u></b>
Sure Klean® Weather Seal Weather Seal GP	- 0.2	<b><u>A</u></b>

**Photographs – Protective Water Repellents****“Lakestone Calumet Flats”, RILEM Testing**

### **Conclusions – Protective Water Repellents**

In the RILEM tests, results indicated that at least one of the treatments evaluated provided above average water repellent protection to each type of manufactured stone.

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

Recommendations for water repellent treatments for each type of manufactured stone submitted by Stonecraft Industries, Wixom, MI provided in the chart below. Recommendations are based on the treatments that proved most effective at providing water repellency on the submitted samples.

<b>Sample</b>	<b>Protective Water Repellents</b>
“Fieldstone Bucktown” “Heritage Penn State”	* Stand Off® SLX100™ Water & Oil Repellent
“Fieldstone Canyon Gray” “Heritage Bucktown” “Top Rock Brown”	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II
“Fieldstone Colorado” “Fieldstone Pennsylvania” “River Rock Adirondack”	* Stand Off® SLX100™ Water & Oil Repellent or Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II
“Fieldstone Mountain” “Fieldstone Valley Forge” “Fieldstone Warm Springs” “Heritage Gray Flat” “Heritage Ohio Flat” “Heritage Pennsylvania” “Heritage Tan Flat”	* Stand Off® SLX100™ Water & Oil Repellent or Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II or Sure Klean® Weather Seal Weather Seal GP or Sure Klean® Weather Seal Siloxane PD
“Heritage Chardonnay”	* Stand Off® SLX100™ Water & Oil Repellent or Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II or Sure Klean® Weather Seal Siloxane PD
“Heritage Old Ohio Flat”	Sure Klean® Weather Seal Siloxane PD

### Recommendations – Protective Water Repellents

Sample	Protective Water Repellents
"Heritage Warm Springs" "Lakestone Calumet Flat"	* Stand Off® SLX100™ Water & Oil Repellent or Sure Klean® Weather Seal Weather Seal GP or Sure Klean® Weather Seal Siloxane PD
"Heritage Wisconsin" "Quartz French Country" "Quartz Pennsylvania" "Top Rock Pennsylvania"	* Stand Off® SLX100™ Water & Oil Repellent or Sure Klean® Weather Seal Siloxane PD
"Quartz Valley Forge" "Top Rock Warm Spring Flats"	* Stand Off® SLX100™ Water & Oil Repellent or Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II or Sure Klean® Weather Seal Weather Seal GP
"Top Rock Realen"	* Stand Off® SLX100™ Water & Oil Repellent or Sure Klean® Weather Seal Weather Seal GP

\* **NOTE:** Stand Off® SLX100™ Water & Oil Repellent is manufactured and marketed in compliance with VOC regulations. This product may not be suitable for sale in states and districts with more restrictive regulations.

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

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

## **Graffiti Control**

This evaluation compares the effectiveness of graffiti control treatments in preventing staining of enamel spray paint and permanent markers.

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### **Description of Products Evaluated – Graffiti Control**

#### **Graffiti Control Treatments**

**Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II** – A clear-drying, water-based silicone emulsion for weatherproofing concrete block and other porous masonry materials. Blok-Guard® & Graffiti Control II also protects masonry surfaces from graffiti attacks without altering the natural appearance. Blok-Guard® & Graffiti Control II protects exterior walls exposed to normal weathering. Graffiti removal from treated surfaces is fast and easy using Defacer Eraser® Graffiti Wipe. Blok-Guard® & Graffiti Control II is easy to apply with low-pressure spray, brush, or roller.

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

**Enviro Klean® SafStrip® 8** – A neutral pH stripping compound for nearly any hard surface – masonry, concrete, wood or metal. It bears the Enviro Klean® brand because it removes most high-strength paints and clear coats without the methylene chloride or methanol found in traditional solvent paint strippers. Use SafStrip® 8 to break the bond of the toughest oil-based “alkyd” paints, acrylics, lacquers and clear sealers. It also removes graffiti media such as spray paint and “magic” marker. SafStrip® 8’s gel-like consistency makes it hard to spill and easy to apply. It immediately emulsifies in water.

**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.

**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.

#### **Graffiti Agents**

Interior/Exterior Spray Paint (Red)

Permanent Marker (Blue)

Permanent Marker (Red)

Permanent Marker (Black)

### **Sample Preparation – Graffiti Control**

Sections of the manufactured stone were treated with Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II in accordance with the current PROSOCO, Inc. Product Data Sheet application instructions and 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® Weather Seal Blok-Guard® & Graffiti Control II. Removal of the graffiti agents was attempted 24 hours after application of the graffiti agents, using Enviro Klean® SafStrip® 8, Defacer Eraser® Graffiti Wipe, and Sure Klean® 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:

Enviro Klean® SafStrip® 8.....	30 minutes
Sure Klean® Fast Acting Stripper .....	20 minutes
Defacer Eraser® Graffiti Wipe .....	5 minutes

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 700-800 psi with a water flow rate of 8 gallons per minute delivered through a 45 degree fan spray tip was used for rinsing.

Test Results – Graffiti Control

<b>“Fieldstone Bucktown”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	40 %	65 %	65 %	70 %	<b>60 %</b>
Sure Klean® Fast Acting Stripper	85 %	75 %	70 %	70 %	<b>75 %</b>
Defacer Eraser® Graffiti Wipe	20 %	60 %	60 %	60 %	<b>50 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	40 %	85 %	80 %	85 %	<b>73 %</b>
Sure Klean® Fast Acting Stripper	85 %	95 %	95 %	95 %	<b>93 %</b>
Defacer Eraser® Graffiti Wipe	50 %	70 %	60 %	70 %	<b>63 %</b>
<b>“Fieldstone Canyon Gray”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	50 %	85 %	85 %	85 %	<b>76 %</b>
Sure Klean® Fast Acting Stripper	55 %	100 %	95 %	100 %	<b>88 %</b>
Defacer Eraser® Graffiti Wipe	45 %	90 %	90 %	85 %	<b>78 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	50 %	90 %	85 %	90 %	<b>78 %</b>
Sure Klean® Fast Acting Stripper	65 %	95 %	95 %	100 %	<b>89 %</b>
Defacer Eraser® Graffiti Wipe	60 %	90 %	85 %	95 %	<b>83 %</b>
<b>“Fieldstone Colorado”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	30 %	100 %	85 %	100 %	<b>79 %</b>
Sure Klean® Fast Acting Stripper	40 %	100 %	100 %	100 %	<b>85 %</b>
Defacer Eraser® Graffiti Wipe	30 %	90 %	85 %	85 %	<b>73 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	55 %	100 %	85 %	85 %	<b>81 %</b>
Sure Klean® Fast Acting Stripper	60 %	95 %	85 %	95 %	<b>84 %</b>
Defacer Eraser® Graffiti Wipe	30 %	95 %	85 %	90 %	<b>75 %</b>
<b>“Fieldstone Mountain”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	5 %	60 %	40 %	60 %	<b>41 %</b>
Sure Klean® Fast Acting Stripper	85 %	95 %	60 %	90 %	<b>83 %</b>
Defacer Eraser® Graffiti Wipe	5 %	80 %	60 %	80 %	<b>56 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	45 %	100 %	60 %	90 %	<b>74 %</b>
Sure Klean® Fast Acting Stripper	50 %	100 %	100 %	100 %	<b>88 %</b>
Defacer Eraser® Graffiti Wipe	40 %	90 %	90 %	90 %	<b>78 %</b>

Test Results – Graffiti Control

<b>“Fieldstone Pennsylvania”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	10 %	70 %	60 %	60 %	<b>50 %</b>
Sure Klean® Fast Acting Stripper	60 %	95 %	70 %	75 %	<b>75 %</b>
Defacer Eraser® Graffiti Wipe	50 %	85 %	65 %	65 %	<b>66 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	45 %	80 %	65 %	65 %	<b>64 %</b>
Sure Klean® Fast Acting Stripper	70 %	100 %	95 %	95 %	<b>90 %</b>
Defacer Eraser® Graffiti Wipe	45 %	90 %	75 %	75 %	<b>71 %</b>
<b>“Fieldstone Valley Forge”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	40 %	65 %	65 %	65 %	<b>59 %</b>
Sure Klean® Fast Acting Stripper	50 %	95 %	80 %	80 %	<b>76 %</b>
Defacer Eraser® Graffiti Wipe	40 %	60 %	60 %	60 %	<b>55 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	45 %	65 %	60 %	70 %	<b>60 %</b>
Sure Klean® Fast Acting Stripper	65 %	85 %	70 %	85 %	<b>76 %</b>
Defacer Eraser® Graffiti Wipe	40 %	60 %	60 %	60 %	<b>55 %</b>
<b>“Fieldstone Warm Springs”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	10 %	75 %	40 %	45 %	<b>43 %</b>
Sure Klean® Fast Acting Stripper	90 %	55 %	40 %	55 %	<b>60 %</b>
Defacer Eraser® Graffiti Wipe	5 %	50 %	40 %	40 %	<b>34 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	10 %	40 %	70 %	85 %	<b>51 %</b>
Sure Klean® Fast Acting Stripper	90 %	80 %	65 %	85 %	<b>80 %</b>
Defacer Eraser® Graffiti Wipe	5 %	40 %	40 %	50 %	<b>34 %</b>
<b>“Heritage Bucktown”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	60 %	60 %	60 %	60 %	<b>60 %</b>
Sure Klean® Fast Acting Stripper	65 %	85 %	80 %	85 %	<b>79 %</b>
Defacer Eraser® Graffiti Wipe	55 %	90 %	85 %	80 %	<b>78 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	60 %	90 %	60 %	70 %	<b>70 %</b>
Sure Klean® Fast Acting Stripper	70 %	90 %	85 %	85 %	<b>83 %</b>
Defacer Eraser® Graffiti Wipe	65 %	90 %	90 %	85 %	<b>83 %</b>

Test Results – Graffiti Control

<b>"Heritage Chardonnay"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	10 %	60 %	60 %	60 %	<b>48 %</b>
Sure Klean® Fast Acting Stripper	50 %	80 %	65 %	80 %	<b>69 %</b>
Defacer Eraser® Graffiti Wipe	5 %	50 %	50 %	50 %	<b>39 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	15 %	90 %	40 %	90 %	<b>59 %</b>
Sure Klean® Fast Acting Stripper	85 %	100 %	100 %	100 %	<b>96 %</b>
Defacer Eraser® Graffiti Wipe	10 %	90 %	70 %	90 %	<b>65 %</b>
<b>"Heritage Gray Flat"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	60 %	60 %	60 %	60 %	<b>60 %</b>
Sure Klean® Fast Acting Stripper	65 %	70 %	70 %	70 %	<b>69 %</b>
Defacer Eraser® Graffiti Wipe	55 %	40 %	40 %	40 %	<b>44 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	5 %	60 %	40 %	60 %	<b>41 %</b>
Sure Klean® Fast Acting Stripper	85 %	70 %	70 %	70 %	<b>74 %</b>
Defacer Eraser® Graffiti Wipe	60 %	40 %	40 %	40 %	<b>45 %</b>
<b>"Heritage Ohio Flat"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	30 %	40 %	40 %	40 %	<b>31 %</b>
Sure Klean® Fast Acting Stripper	75 %	65 %	65 %	65 %	<b>68 %</b>
Defacer Eraser® Graffiti Wipe	10 %	40 %	40 %	40 %	<b>33 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	10 %	40 %	40 %	70 %	<b>40 %</b>
Sure Klean® Fast Acting Stripper	65 %	60 %	70 %	90 %	<b>71 %</b>
Defacer Eraser® Graffiti Wipe	15 %	40 %	40 %	40 %	<b>34 %</b>
<b>"Heritage Old Ohio Flat"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	40 %	80 %	60 %	65 %	<b>61 %</b>
Sure Klean® Fast Acting Stripper	40 %	90 %	60 %	60 %	<b>63 %</b>
Defacer Eraser® Graffiti Wipe	40 %	60 %	40 %	50 %	<b>48 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	40 %	90 %	85 %	70 %	<b>71 %</b>
Sure Klean® Fast Acting Stripper	50 %	65 %	75 %	65 %	<b>64 %</b>
Defacer Eraser® Graffiti Wipe	40 %	65 %	70 %	65 %	<b>60 %</b>

Test Results – Graffiti Control

<b>"Heritage Penn State"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	45 %	60 %	60 %	60 %	<b>56 %</b>
Sure Klean® Fast Acting Stripper	70 %	80 %	70 %	70 %	<b>73 %</b>
Defacer Eraser® Graffiti Wipe	30 %	60 %	60 %	60 %	<b>53 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	55 %	60 %	60 %	60 %	<b>59 %</b>
Sure Klean® Fast Acting Stripper	70 %	90 %	60 %	90 %	<b>78 %</b>
Defacer Eraser® Graffiti Wipe	40 %	70 %	40 %	50 %	<b>50 %</b>
<b>"Heritage Pennsylvania"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	20 %	60 %	60 %	60 %	<b>50 %</b>
Sure Klean® Fast Acting Stripper	70 %	75 %	60 %	60 %	<b>68 %</b>
Defacer Eraser® Graffiti Wipe	20 %	40 %	40 %	40 %	<b>35 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	60 %	65 %	60 %	60 %	<b>61 %</b>
Sure Klean® Fast Acting Stripper	85 %	90 %	85 %	90 %	<b>88 %</b>
Defacer Eraser® Graffiti Wipe	45 %	65 %	60 %	60 %	<b>58 %</b>
<b>"Heritage Tan Flat"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	5 %	60 %	60 %	60 %	<b>46 %</b>
Sure Klean® Fast Acting Stripper	30 %	85 %	60 %	65 %	<b>60 %</b>
Defacer Eraser® Graffiti Wipe	5 %	40 %	40 %	40 %	<b>31 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	10 %	65 %	60 %	65 %	<b>50 %</b>
Sure Klean® Fast Acting Stripper	85 %	80 %	80 %	85 %	<b>83 %</b>
Defacer Eraser® Graffiti Wipe	10 %	60 %	60 %	60 %	<b>47 %</b>
<b>"Heritage Warm Springs"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	5 %	85 %	85 %	90 %	<b>66 %</b>
Sure Klean® Fast Acting Stripper	30 %	95 %	90 %	90 %	<b>76 %</b>
Defacer Eraser® Graffiti Wipe	10 %	60 %	60 %	60 %	<b>48 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	60 %	80 %	80 %	80 %	<b>75 %</b>
Sure Klean® Fast Acting Stripper	30 %	90 %	90 %	95 %	<b>76 %</b>
Defacer Eraser® Graffiti Wipe	30 %	100 %	85 %	85 %	<b>75 %</b>

Test Results – Graffiti Control

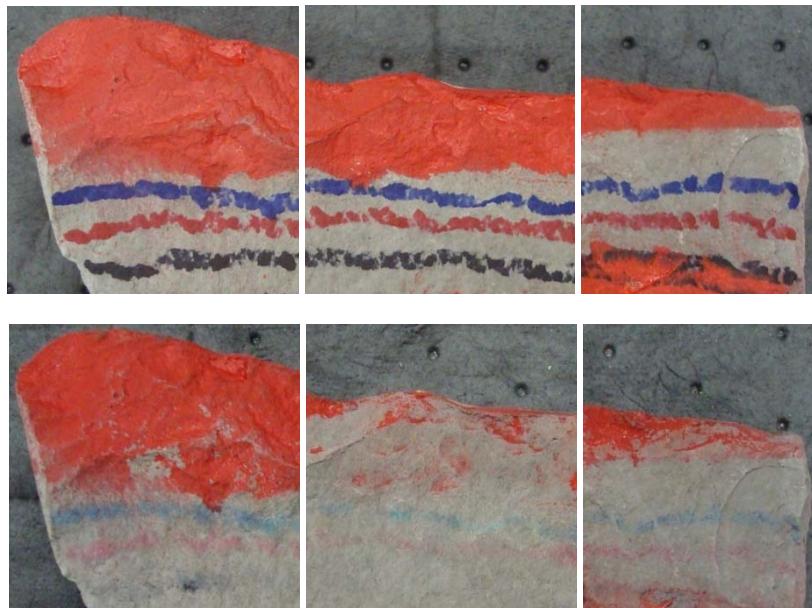
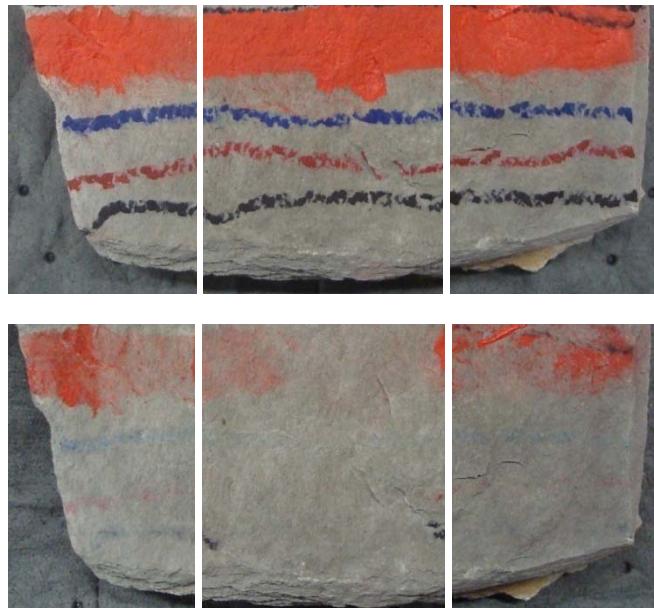
<b>"Heritage Wisconsin"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	5 %	85 %	60 %	90 %	<b>60 %</b>
Sure Klean® Fast Acting Stripper	10 %	100 %	80 %	100 %	<b>73 %</b>
Defacer Eraser® Graffiti Wipe	5 %	50 %	50 %	50 %	<b>39 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	30 %	70 %	70 %	70 %	<b>60 %</b>
Sure Klean® Fast Acting Stripper	70 %	90 %	85 %	85 %	<b>83 %</b>
Defacer Eraser® Graffiti Wipe	45 %	50 %	50 %	50 %	<b>49 %</b>
<b>"Limestone Calumet Flat"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	5 %	60 %	60 %	60 %	<b>46 %</b>
Sure Klean® Fast Acting Stripper	80 %	85 %	85 %	85 %	<b>42 %</b>
Defacer Eraser® Graffiti Wipe	5 %	40 %	60 %	60 %	<b>41 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	75 %	40 %	40 %	40 %	<b>49 %</b>
Sure Klean® Fast Acting Stripper	90 %	70 %	60 %	60 %	<b>70 %</b>
Defacer Eraser® Graffiti Wipe	65 %	40 %	40 %	40 %	<b>46 %</b>
<b>"Quartz French Country"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	5 %	50 %	60 %	65 %	<b>45 %</b>
Sure Klean® Fast Acting Stripper	60 %	80 %	65 %	60 %	<b>66 %</b>
Defacer Eraser® Graffiti Wipe	5 %	40 %	50 %	50 %	<b>36 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	15 %	70 %	40 %	65 %	<b>48 %</b>
Sure Klean® Fast Acting Stripper	45 %	85 %	65 %	65 %	<b>65 %</b>
Defacer Eraser® Graffiti Wipe	5 %	60 %	40 %	40 %	<b>36 %</b>
<b>"Quartz Pennsylvania"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	55 %	70 %	60 %	65 %	<b>63 %</b>
Sure Klean® Fast Acting Stripper	80 %	75 %	65 %	65 %	<b>71 %</b>
Defacer Eraser® Graffiti Wipe	50 %	65 %	60 %	60 %	<b>59 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	70 %	90 %	80 %	90 %	<b>83 %</b>
Sure Klean® Fast Acting Stripper	85 %	90 %	75 %	80 %	<b>83 %</b>
Defacer Eraser® Graffiti Wipe	75 %	70 %	70 %	70 %	<b>71 %</b>

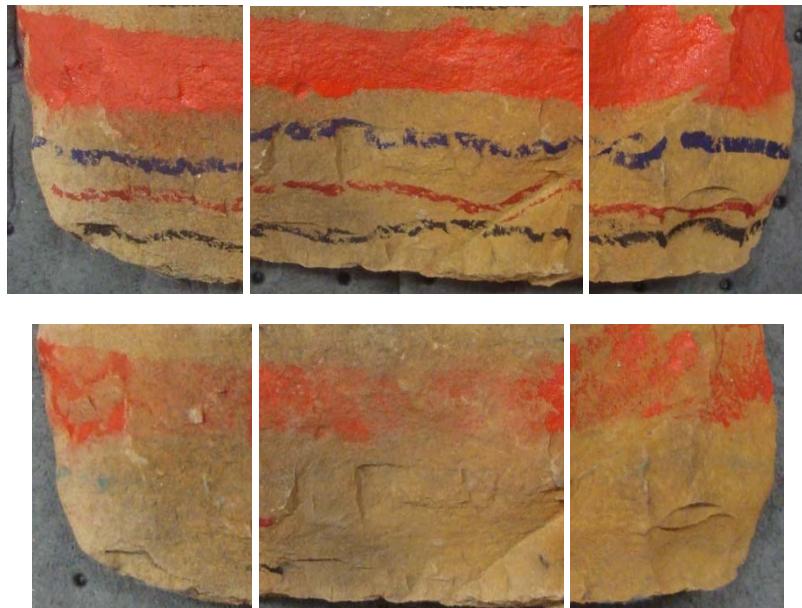
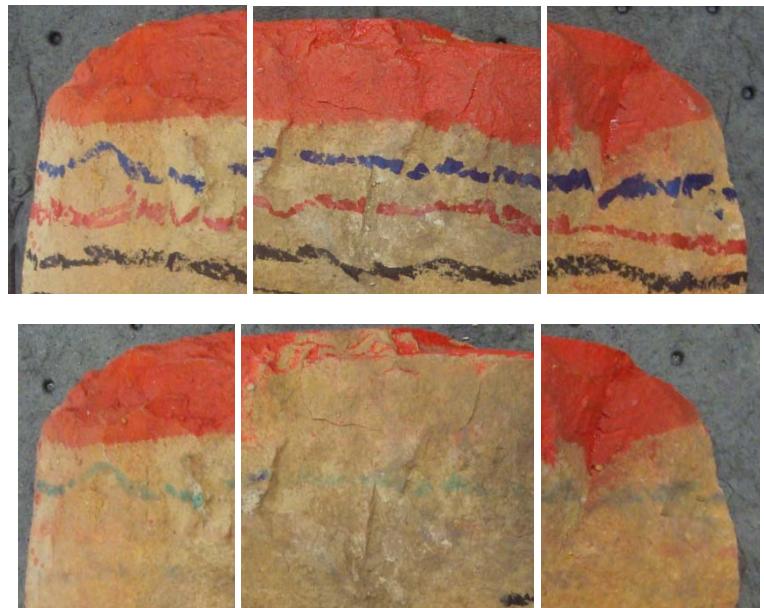
Test Results – Graffiti Control

<b>"Quartz Valley Forge"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	45 %	75 %	75 %	75 %	<b>68 %</b>
Sure Klean® Fast Acting Stripper	70 %	75 %	75 %	75 %	<b>74 %</b>
Defacer Eraser® Graffiti Wipe	55 %	75 %	75 %	75 %	<b>70 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	70 %	75 %	75 %	75 %	<b>74 %</b>
Sure Klean® Fast Acting Stripper	75 %	75 %	75 %	75 %	<b>75 %</b>
Defacer Eraser® Graffiti Wipe	40 %	75 %	75 %	75 %	<b>66 %</b>
<b>"River Rock Adirondack"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	40 %	70 %	40 %	70 %	<b>55 %</b>
Sure Klean® Fast Acting Stripper	40 %	70 %	60 %	70 %	<b>60 %</b>
Defacer Eraser® Graffiti Wipe	40 %	70 %	60 %	70 %	<b>60 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	40 %	70 %	65 %	65 %	<b>60 %</b>
Sure Klean® Fast Acting Stripper	65 %	75 %	75 %	75 %	<b>73 %</b>
Defacer Eraser® Graffiti Wipe	40 %	60 %	60 %	70 %	<b>58 %</b>
<b>"Top Rock Brown"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	40 %	40 %	40 %	40 %	<b>40 %</b>
Sure Klean® Fast Acting Stripper	85 %	70 %	70 %	70 %	<b>74 %</b>
Defacer Eraser® Graffiti Wipe	40 %	80 %	65 %	75 %	<b>65 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	70 %	60 %	60 %	60 %	<b>63 %</b>
Sure Klean® Fast Acting Stripper	75 %	70 %	70 %	70 %	<b>71 %</b>
Defacer Eraser® Graffiti Wipe	70 %	70 %	70 %	65 %	<b>61 %</b>
<b>"Top Rock Pennsylvania"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	30 %	40 %	40 %	40 %	<b>38 %</b>
Sure Klean® Fast Acting Stripper	50 %	85 %	70 %	85 %	<b>73 %</b>
Defacer Eraser® Graffiti Wipe	30 %	90 %	60 %	75 %	<b>64 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	30 %	40 %	40 %	40 %	<b>38 %</b>
Sure Klean® Fast Acting Stripper	40 %	80 %	80 %	90 %	<b>73 %</b>
Defacer Eraser® Graffiti Wipe	30 %	85 %	80 %	85 %	<b>70 %</b>

Test Results – Graffiti Control

<b>"Top Rock Realen"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	15 %	60 %	60 %	60 %	<b>49 %</b>
Sure Klean® Fast Acting Stripper	75 %	85 %	75 %	85 %	<b>60 %</b>
Defacer Eraser® Graffiti Wipe	5 %	75 %	60 %	75 %	<b>54 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	20 %	70 %	55 %	70 %	<b>54 %</b>
Sure Klean® Fast Acting Stripper	75 %	85 %	75 %	90 %	<b>81 %</b>
Defacer Eraser® Graffiti Wipe	5 %	60 %	55 %	75 %	<b>49 %</b>
<b>"Top Rock Warm Spring Flats"</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	15 %	85 %	60 %	70 %	<b>58 %</b>
Sure Klean® Fast Acting Stripper	65 %	85 %	60 %	70 %	<b>70 %</b>
Defacer Eraser® Graffiti Wipe	10 %	60 %	60 %	60 %	<b>48 %</b>
<b>Sure Klean® Weather Seal Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Blue Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Enviro Klean® SafStrip® 8	5 %	85 %	75 %	85 %	<b>63 %</b>
Sure Klean® Fast Acting Stripper	80 %	100 %	100 %	100 %	<b>95 %</b>
Defacer Eraser® Graffiti Wipe	5 %	85 %	75 %	80 %	<b>61 %</b>

**Photographs – Graffiti Control****“Fieldstone Pennsylvania”****Untreated Surface**Enviro Klean®  
SafStrip® 8Sure Klean®  
Fast Acting StripperDefacer Eraser®  
Graffiti Wipe**Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II**Enviro Klean®  
SafStrip® 8Sure Klean®  
Fast Acting StripperDefacer Eraser®  
Graffiti Wipe

**Photographs – Graffiti Control****“Fieldstone Mountain”****Untreated Control**Enviro Klean®  
SafStrip® 8Sure Klean®  
Fast Acting StripperDefacer Eraser®  
Graffiti Wipe**Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II**Enviro Klean®  
SafStrip® 8Sure Klean®  
Fast Acting StripperDefacer Eraser®  
Graffiti Wipe

### **Conclusions – Graffiti Control**

Based upon laboratory evaluations, graffiti removal was improved when the submitted samples were treated with Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II prior to graffiti application.

### **Recommendations – Graffiti Control**

Recommendations for graffiti control treatment for the manufactured stone submitted by Stonecraft Industries, Wixom, MI 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
“Fieldstone Bucktown” “Quartz Valley Forge”	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	Enviro Klean® SafStrip® 8 or Sure Klean® Fast Acting Stripper
“Fieldstone Canyon Gray” “Fieldstone Colorado” “Fieldstone Mountain” “Heritage Bucktown” “Heritage Warm Springs” “Quartz Pennsylvania”	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	Enviro Klean® SafStrip® 8 or Sure Klean® Fast Acting Stripper or Defacer Eraser® Graffiti Wipe
“Fieldstone Valley Forge” “Fieldstone Warm Springs” “Heritage Chardonnay” “Heritage Gray Flat” “Heritage Ohio Flat” “Heritage Penn State” “Heritage Pennsylvania” “Heritage Tan Flat” “Heritage Wisconsin” “Lakestone Calumet Flats” “River Rock Adirondack” “Top Rock Brown” “Top Rock Realen” “Top Rock Warm Spring Flats” “Quartz French Country”	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	Sure Klean® Fast Acting Stripper

**Recommendations – Graffiti Control**

Sample	Graffiti Repellents	Graffiti Removers
"Fieldstone Pennsylvania" "Top Rock Pennsylvania"	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	Sure Klean® Fast Acting Stripper  or  Defacer Eraser® Graffiti Wipe
"Heritage Old Ohio Flat"	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	Enviro Klean® SafStrip® 8

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

## Stain Repellency

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

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### Description of Products Evaluated – Stain Repellency

#### Stain Repellent Treatments

**Stand Off® SLX100™ Water & Oil Repellent** – Combines water and oil repellency on most substrates to prevent staining by waterborne and oily substances. This modified “heat” 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>	<u>Temperature</u>
Coca Cola	ambient (~70°F)
Ketchup	ambient (~70°F)
Mustard	ambient (~70°F)
Red Wine	ambient (~70°F)
Balsamic Vinegar	ambient (~70°F)
Soy Sauce	ambient (~70°F)
Olive Oil	ambient (~70°F)
Wesson Oil	(~250°F)
Coffee	(~120°F)

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### Sample Preparation – Stain Repellency

The protective treatments were applied by brush in accordance with the current PROSOCO, Inc. Product Data Sheet application instructions. The treatments were allowed to cure on the samples for at least 72 hours before testing.

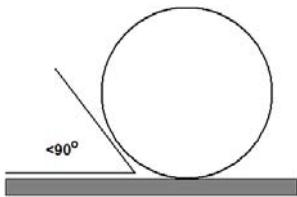
### Surface Beading Evaluation

The food and oil products were applied to the test areas by using a dropper creating a bead 0.5 – 1.0 cm in diameter. The beading properties of the oils and liquids were visually evaluated within two minutes after application. The results are reported as a rating based on the angle of contact between the base of the droplet and the substrate. A rating of "1 or 2" indicated the smallest angle of contact (<90°) which correlates to "above average" repellency. A rating of "3 or 4" indicates "average" repellency. A rating of "5 or greater" indicated that the food or oil quickly absorbed into the substrate and correlates to "below average" repellency.

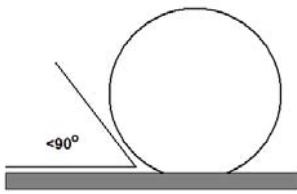
**Note: Non-free flowing staining agents such as ketchup and mustard are applied in a globular fashion and therefore are not evaluated for their beading properties.**

#### 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.

Test Results – Surface Beading

“Fieldstone Bucktown”									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control™	3	--	--	5	4	4	5	5	5
Stand Off® SLX100 Water & Oil Repellent	3	--	--	3	3	3	2	3	3
“Fieldstone Canyon Gray”									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	--	--	3	4	4	5	5	4
Stand Off® SLX100™ Water & Oil Repellent	2	--	--	3	2	2	4	3	2
“Fieldstone Colorado”									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	3	--	--	4	3	3	5	5	4
Stand Off® SLX100™ Water & Oil Repellent	3	--	--	3	1	1	2	3	2
“Fieldstone Mountain”									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	4	--	--	5	3	3	5	5	5
Stand Off® SLX100™ Water & Oil Repellent	2	--	--	3	2	3	3	3	2
“Fieldstone Pennsylvania”									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	--	--	3	4	4	3	3	3
Stand Off® SLX100™ Water & Oil Repellent	3	--	--	5	3	4	5	5	4
“Fieldstone Valley Forge”									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	4	--	--	4	4	4	5	5	5
Stand Off® SLX100™ Water & Oil Repellent	2	--	--	3	1	1	2	3	3
“Fieldstone Warm Springs”									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	4	--	--	5	3	3	5	5	5
Stand Off® SLX100™ Water & Oil Repellent	3	--	--	2	2	2	3	3	3

Test Results – Surface Beading

“Heritage Bucktown”									
Treatment	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
Stand Off® SLX100™ Water & Oil Repellent	1	--	--	1	3	2	3	3	3
“Heritage Chardonnay”									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	4	--	--	4	4	4	5	5	4
Stand Off® SLX100™ Water & Oil Repellent	2	--	--	3	3	2	2	3	2
“Heritage Gray Flat”									
Treatment	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
Stand Off® SLX100™ Water & Oil Repellent	1	--	--	2	1	2	3	3	4
“Heritage Ohio Flat”									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	3	--	--	3	3	3	5	5	4
Stand Off® SLX100™ Water & Oil Repellent	2	--	--	2	2	2	3	3	2
“Heritage Old Ohio Flat”									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	3	--	--	3	3	3	5	5	4
Stand Off® SLX100™ Water & Oil Repellent	2	--	--	2	2	2	3	3	3
“Heritage Penn State”									
Treatment	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
Stand Off® SLX100™ Water & Oil Repellent	1	--	--	2	2	1	3	3	2
“Heritage Pennsylvania”									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	3	--	--	3	3	3	2	3	3
Stand Off® SLX100™ Water & Oil Repellent	3	--	--	4	5	3	5	5	5

Test Results – Surface Beading

"Heritage Tan Flat"									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	--	--	5	4	4	5	5	4
Stand Off® SLX100™ Water & Oil Repellent	3	--	--	1	3	3	2	2	2
"Heritage Warm Springs"									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	1	--	--	5	3	2	5	5	4
Stand Off® SLX100™ Water & Oil Repellent	1	--	--	1	2	2	1	1	2
"Heritage Wisconsin"									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	3	--	--	4	4	4	5	5	4
Stand Off® SLX100™ Water & Oil Repellent	2	--	--	2	3	3	3	3	3
"Limestone Calumet Flat"									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	4	--	--	3	3	3	5	5	4
Stand Off® SLX100™ Water & Oil Repellent	2	--	--	3	3	3	3	3	3
"Quartz French Country"									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	3	--	--	5	3	3	5	5	4
Stand Off® SLX100™ Water & Oil Repellent	2	--	--	2	2	3	3	3	4
"Quartz Pennsylvania"									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	4	--	--	5	4	4	5	5	5
Stand Off® SLX100™ Water & Oil Repellent	2	--	--	2	2	2	3	3	3
"Quartz Valley Forge"									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	4	--	--	5	4	3	5	5	5
Stand Off® SLX100™ Water & Oil Repellent	2	--	--	2	2	2	3	3	3

Test Results – Surface Beading

“River Rock Adirondack”									
Treatment	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
Stand Off® SLX100™ Water & Oil Repellent	3	--	--	2	2	2	3	3	2
“Top Rock Brown”									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	4	--	--	4	4	4	5	5	4
Stand Off® SLX100™ Water & Oil Repellent	2	--	--	2	3	2	3	3	1
“Top Rock Pennsylvania”									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	3	--	--	3	3	3	4	4	3
Stand Off® SLX100™ Water & Oil Repellent	2	--	--	3	3	3	3	3	2
“Top Rock Realen”									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	5	--	--	5	3	3	5	5	5
Stand Off® SLX100™ Water & Oil Repellent	2	--	--	2	2	2	3	3	3
“Top Rock Warm Spring Flats”									
Treatment	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
Untreated Control	4	--	--	4	4	4	5	5	5
Stand Off® SLX100™ Water & Oil Repellent	3	--	--	3	2	3	3	3	3

**Test Results – Stain Repellency****% Stain Removal**

<b>"Fieldstone Bucktown"</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	100 %	< 1 %	< 1 %	80 %	*100 %	< 1 %	< 1 %	< 1 %	80 %
<b>4 hr</b>	80 %	*100 %	*95 %	80 %	*100 %	*100 %	< 1 %	< 1 %	80 %
<b>1 hr</b>	80 %	*100 %	*95 %	80 %	*80 %	*80 %	< 1 %	< 1 %	80 %
<b>10 min</b>	80 %	*100 %	*95 %	80 %	*100 %	*100 %	< 1 %	< 1 %	80 %

<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	100 %	< 1 %	*100 %	*100 %	*100 %	< 1 %	90 %	90 %	80 %
<b>4 hr</b>	*100 %	*100 %	*100 %	*100 %	*100 %	*100 %	90 %	90 %	90 %
<b>1 hr</b>	90 %	*100 %	*100 %	*80 %	*100 %	*100 %	90 %	90 %	90 %
<b>10 min</b>	90 %	*100 %	*100 %	*90 %	*100 %	*100 %	90 %	90 %	90 %

<b>"Fieldstone Canyon Gray"</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	80 %	< 1 %	< 1 %	60 %	*100 %	80 %	< 1 %	< 1 %	90 %
<b>4 hr</b>	80 %	*70 %	< 1 %	60 %	*100 %	80 %	< 1 %	< 1 %	90 %
<b>1 hr</b>	80 %	40 %	* 60 %	60 %	*100 %	80 %	< 1 %	< 1 %	90 %
<b>10 min</b>	80 %	90 %	60 %	60 %	*100 %	80 %	< 1 %	< 1 %	90 %

<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	*100 %	< 1 %	*100 %	100 %	100 %	*100 %	< 1 %	< 1 %	100 %
<b>4 hr</b>	*100 %	*100 %	*100 %	100 %	100 %	80 %	90 %	90 %	100 %
<b>1 hr</b>	*100 %	*100 %	*100 %	100 %	100 %	100 %	100 %	100 %	100 %
<b>10 min</b>	*100 %	*100 %	*100 %	100 %	100 %	100 %	100 %	100 %	100 %

\* Indicates etching upon the surface.

**Test Results – Stain Repellency****% Stain Removal**

<b>"Fieldstone Colorado"</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	90 %	< 1 %	< 1 %	80 %	80 %	90 %	< 1 %	< 1 %	90 %
<b>4 hr</b>	90 %	< 1 %	< 1 %	80 %	*100 %	*90 %	< 1 %	< 1 %	90 %
<b>1 hr</b>	90 %	< 1 %	< 1 %	80 %	80 %	*100 %	< 1 %	< 1 %	90 %
<b>10 min</b>	90 %	*80 %	*80 %	80 %	80 %	*100 %	< 1 %	< 1 %	90 %

<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	90 %	< 1 %	< 1 %	100 %	< 1 %	< 1 %	90 %	90 %	80 %
<b>4 hr</b>	90 %	*100 %	*100 %	90 %	*100 %	*100 %	90 %	90 %	80 %
<b>1 hr</b>	100 %	100 %	*100 %	100 %	100 %	100 %	100 %	100 %	100 %
<b>10 min</b>	100 %	*100 %	*100 %	90 %	90 %	*100 %	90 %	90 %	90 %

<b>"Fieldstone Mountain"</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	*100 %	< 1 %	< 1 %	80 %	*100 %	100 %	< 1 %	< 1 %	100 %
<b>4 hr</b>	*100 %	*80 %	< 1 %	80 %	*100 %	100 %	< 1 %	< 1 %	100 %
<b>1 hr</b>	*100 %	*85 %	*60 %	90 %	*100 %	100 %	< 1 %	< 1 %	100 %
<b>10 min</b>	*100 %	*80 %	*60 %	90 %	*100 %	100 %	< 1 %	< 1 %	100 %

<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	90 %	< 1 %	*100 %	*100 %	< 1 %	90 %	90 %	< 1 %	80 %
<b>4 hr</b>	90 %	*100 %	*100 %	*80 %	*100 %	80 %	60 %	90 %	90 %
<b>1 hr</b>	90 %	*100 %	*100 %	*100 %	*100 %	100 %	90 %	< 1 %	*100 %
<b>10 min</b>	90 %	*100 %	*100 %	*100 %	*100 %	100 %	90 %	90 %	*100 %

\* Indicates etching upon the surface.

**Test Results – Stain Repellency****% Stain Removal**

<b>“Fieldstone Pennsylvania”</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	< 1 %	< 1 %	< 1 %	80 %	*100 %	*100 %	< 1 %	< 1 %	80 %
<b>4 hr</b>	< 1 %	*80 %	< 1 %	80 %	*100 %	*100 %	< 1 %	< 1 %	80 %
<b>1 hr</b>	< 1 %	100 %	*100 %	80 %	*100 %	*100 %	< 1 %	< 1 %	80 %
<b>10 min</b>	< 1 %	100 %	*100 %	80 %	*100 %	*100 %	< 1 %	< 1 %	90 %

<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	*100 %	*100 %	100 %	80 %	80 %	90 %	< 1 %	< 1 %	90 %
<b>4 hr</b>	*100 %	*100 %	100 %	80 %	80 %	90 %	< 1 %	< 1 %	90 %
<b>1 hr</b>	*100 %	*100 %	100 %	80 %	80 %	90 %	< 1 %	< 1 %	90 %
<b>10 min</b>	*100 %	*100 %	100 %	80 %	80 %	90 %	< 1 %	< 1 %	90 %

<b>“Fieldstone Valley Forge”</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	100 %	< 1 %	< 1 %	80 %	*100 %	< 1 %	< 1 %	< 1 %	80 %
<b>4 hr</b>	100 %	*60 %	*90 %	80 %	*100 %	70 %	< 1 %	< 1 %	80 %
<b>1 hr</b>	100 %	*100 %	*90 %	80 %	*100 %	70 %	< 1 %	< 1 %	80 %
<b>10 min</b>	100 %	*100 %	*80 %	100 %	*100 %	70 %	< 1 %	< 1 %	80 %

<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	90 %	< 1 %	< 1 %	100 %	*90 %	< 1 %	< 1 %	< 1 %	*90 %
<b>4 hr</b>	90 %	*100 %	*100 %	*90 %	100 %	100 %	90 %	90 %	90 %
<b>1 hr</b>	100 %	100 %	< 1 %	100 %	100 %	< 1 %	< 1 %	< 1 %	90 %
<b>10 min</b>	100 %	*100 %	*100 %	100 %	100 %	100 %	100 %	100 %	100 %

\* Indicates etching upon the surface.

**Test Results – Stain Repellency****% Stain Removal**

<b>"Fieldstone Warm Springs"</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	100 %	<1 %	<1 %	60 %	*100 %	*100 %	<1 %	<1 %	40 %
<b>4 hr</b>	100 %	*90 %	<1 %	60 %	*100 %	60 %	<1 %	<1 %	40 %
<b>1 hr</b>	100 %	*90 %	<1 %	40 %	*100 %	60 %	<1 %	<1 %	40 %
<b>10 min</b>	100 %	*90 %	*<1 %	60 %	*100 %	80 %	<1 %	<1 %	60 %

<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	<1 %	<1 %	*100 %	20 %	*100 %	40 %	<1 %	<1 %	60 %
<b>4 hr</b>	80 %	*100 %	*100 %	20 %	*100 %	60 %	80 %	80 %	60 %
<b>1 hr</b>	100 %	*100 %	*100 %	100 %	*100 %	100 %	90 %	100 %	100 %
<b>10 min</b>	100 %	*100 %	*100 %	100 %	*100 %	100 %	100 %	100 %	100 %

<b>"Heritage Bucktown"</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	*100 %	<1 %	<1 %	*100 %	*100 %	*100 %	<1 %	<1 %	90 %
<b>4 hr</b>	*100 %	*90 %	*80 %	*90 %	100 %	*100 %	<1 %	<1 %	100 %
<b>1 hr</b>	100 %	*90 %	*80 %	*90 %	*100 %	*100 %	<1 %	<1 %	100 %
<b>10 min</b>	100 %	*100 %	*100 %	*90 %	*100 %	*100 %	<1 %	<1 %	90 %

<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	*100 %	*100 %	<1 %	*100 %	*100 %	100 %	<1 %	<1 %	*90 %
<b>4 hr</b>	100 %	*100 %	*100 %	100 %	100 %	*100 %	100 %	<1 %	100 %
<b>1 hr</b>	100 %	100 %	*80 %	100 %	*100 %	100 %	<1 %	100 %	100 %
<b>10 min</b>	100 %	100 %	100 %	100 %	*100 %	100 %	100 %	100 %	100 %

\* Indicates etching upon the surface.

Test Results – Stain Repellency

## % Stain Removal

“Heritage Chardonnay”									
Untreated Control									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	80 %	*80 %	*80 %	80 %	*100 %	*100 %	>1 %	>1 %	90 %
4 hr	80 %	*80 %	*80 %	*100 %	80 %	*100 %	>1 %	>1 %	*90 %
1 hr	80 %	*40 %	>1 %	100 %	*80 %	*90 %	>1 %	>1 %	*100 %
10 min	80 %	>1 %	>1 %	*90 %	*100 %	*100 %	>1 %	>1 %	*90 %
Stand Off® SLX100™ Water & Oil Repellent									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	*100 %	<1 %	<1 %	*90 %	*80 %	60 %	20 %	20 %	90 %
4 hr	*100 %	*100 %	*100 %	*100 %	*100 %	80 %	20 %	20 %	90 %
1 hr	*100 %	*100 %	*100 %	*100 %	*100 %	90 %	80 %	80 %	90 %
10 min	*100 %	*100 %	*100 %	100 %	100 %	100 %	80 %	80 %	100 %

“Heritage Gray Flat”									
Untreated Control									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100 %	<1 %	<1 %	40 %	<10 %	60 %	<1 %	<1 %	80 %
4 hr	100 %	60 %	<1 %	40 %	40 %	*90 %	<1 %	<1 %	80 %
1 hr	100 %	*100 %	*100 %	40 %	<1 %	60 %	<1 %	<1 %	80 %
10 min	100 %	*100 %	*100 %	40 %	40 %	60 %	<1 %	<1 %	80 %
Stand Off® SLX100™ Water & Oil Repellent									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100 %	<1 %	<1 %	60 %	*100 %	80 %	90 %	90 %	90 %
4 hr	100 %	*100 %	*100 %	*100 %	*100 %	100 %	90 %	90 %	90 %
1 hr	100 %	*100 %	*100 %	*100 %	*100 %	*100 %	100 %	100 %	100 %
10 min	100 %	*100 %	*100 %	100 %	100 %	100 %	100 %	100 %	100 %

\* Indicates etching upon the surface.

**Test Results – Stain Repellency****% Stain Removal****"Heritage Ohio Flat"****Untreated Control**

	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	80 %	<1 %	<1 %	60 %	*90 %	*80 %	<1 %	<1 %	*80 %
4 hr	100 %	*85 %	*85 %	60 %	*90 %	*80 %	<1 %	<1 %	*80 %
1 hr	100 %	*90 %	*85 %	60 %	*90 %	*80 %	<1 %	<1 %	*80 %
10 min	100 %	*95 %	*85 %	60 %	*90 %	*100 %	<1 %	<1 %	*80 %

**Stand Off® SLX100™ Water & Oil Repellent**

	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	90 %	*100 %	*90 %	40 %	40 %	40 %	<1 %	<1 %	60 %
4 hr	100 %	*100 %	*100 %	80 %	*100 %	*100 %	<1 %	<1 %	80 %
1 hr	100 %	*100 %	*100 %	80 %	*100 %	90 %	90 %	<1 %	80 %
10 min	100 %	*100 %	*100 %	90 %	*100 %	90 %	90 %	90 %	*100 %

**"Heritage Old Ohio Flat"****Untreated Control**

	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100 %	20 %	>1 %	60 %	90 %	60 %	>1 %	>1 %	60 %
4 hr	90 %	>1 %	>1 %	60 %	100 %	100 %	>1 %	>1 %	100 %
1 hr	100 %	20 %	*90 %	60 %	100 %	100 %	>1 %	>1 %	100 %
10 min	100 %	*60 %	*80 %	80 %	100%	100 %	>1 %	>1 %	100 %

**Stand Off® SLX100™ Water & Oil Repellent**

	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100 %	>1 %	*100 %	100 %	100 %	80 %	100 %	100 %	100 %
4 hr	100 %	*100 %	*100 %	100 %	*100 %	*100 %	100 %	100 %	100 %
1 hr	100 %	*100 %	*100 %	*100 %	100 %	100 %	100 %	100 %	100 %
10 min	100 %	*100 %	*100 %	100 %	100 %	*100 %	100 %	100 %	100 %

\* Indicates etching upon the surface.

**Test Results – Stain Repellency****% Stain Removal**

<b>"Heritage Penn State"</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	80 %	<1 %	<1 %	60 %	*80 %	80 %	<1 %	<1 %	80 %
<b>4 hr</b>	80 %	<1 %	<1 %	40 %	*80 %	*80 %	<1 %	<1 %	80 %
<b>1 hr</b>	80 %	80 %	80 %	60 %	*90 %	*90 %	<1 %	<1 %	80 %
<b>10 min</b>	90 %	*100 %	80 %	60 %	*100%	80 %	<1 %	<1 %	80 %

<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	*100 %	<1 %	*90 %	*100%	90 %	90 %	<1 %	80 %	90 %
<b>4 hr</b>	*100 %	<1 %	*100%	90 %	90 %	*90 %	<1 %	<1 %	90 %
<b>1 hr</b>	*90 %	*100%	*100%	100 %	90 %	*100%	80 %	80 %	90 %
<b>10 min</b>	100 %	100 %	*100%	*100%	90 %	*100%	80 %	80 %	90 %

<b>"Heritage Pennsylvania"</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	90 %	<1 %	*100%	*100%	80 %	80 %	80 %	60 %	90 %
<b>4 hr</b>	100 %	*100%	*100%	100 %	*100%	100 %	90 %	80 %	90 %
<b>1 hr</b>	100 %	*100%	*100%	90 %	90 %	100 %	90 %	90 %	90 %
<b>10 min</b>	90 %	*100%	*100%	90 %	90 %	*100 %	100 %	100 %	100 %

<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	90 %	<1 %	<1 %	80 %	*100 %	*100 %	<1 %	<1 %	90 %
<b>4 hr</b>	100 %	*100%	*90%	100 %	90 %	*100 %	80 %	80 %	*100 %
<b>1 hr</b>	100 %	*100%	*100%	90 %	*90 %	*90 %	90 %	90 %	90 %
<b>10 min</b>	100 %	*100%	*100%	90 %	*100 %	*100 %	90 %	90 %	90 %

\* Indicates etching upon the surface.

**Test Results – Stain Repellency****% Stain Removal**

<b>"Heritage Tan Flat"</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	90 %	<1 %	<1 %	40 %	70 %	80 %	60 %	60 %	80 %
<b>4 hr</b>	90 %	<1 %	<1 %	100 %	*100 %	80 %	<1 %	<1 %	80 %
<b>1 hr</b>	90 %	100 %	*100 %	40 %	80 %	80 %	60 %	60 %	80 %
<b>10 min</b>	95 %	100 %	*100 %	60 %	90 %	90 %	60 %	60 %	90 %

<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	95 %	<1 %	*100 %	70 %	<1 %	<1 %	80 %	80 %	90 %
<b>4 hr</b>	95 %	*100 %	*100 %	80 %	90%	90%	90%	90%	90%
<b>1 hr</b>	100 %	100 %	*100 %	100 %	100 %	100 %	95 %	95 %	100 %
<b>10 min</b>	100 %	100 %	*100 %	100 %	100 %	100 %	100 %	100 %	100 %

<b>"Heritage Warm Springs"</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	*90 %	<1 %	<1 %	*100 %	*90 %	*100 %	<1 %	<1 %	60 %
<b>4 hr</b>	*90 %	<1 %	*95%	60 %	*100 %	*100 %	<1 %	<1 %	80 %
<b>1 hr</b>	*90 %	*100 %	40 %	*90 %	*100 %	*100 %	<1 %	<1 %	90 %
<b>10 min</b>	*90 %	*100 %	*100 %	*100 %	*90 %	*100 %	80 %	60 %	80 %

<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	90 %	*100 %	*100 %	*100 %	*100 %	100 %	95 %	80 %	100 %
<b>4 hr</b>	90 %	*100 %	*100 %	*100 %	*100 %	100 %	95 %	95 %	100 %
<b>1 hr</b>	100 %	*100 %	*100 %	100 %	90 %	*100 %	100 %	100 %	100 %
<b>10 min</b>	100 %	100 %	100 %	100 %	100 %	*100 %	100 %	100 %	100 %

\* Indicates etching upon the surface.

**Test Results – Stain Repellency****% Stain Removal**

<b>"Heritage Wisconsin"</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	*100 %	< 1 %	< 1 %	70 %	*100 %	*100 %	< 1 %	< 1 %	90 %
<b>4 hr</b>	100 %	< 1 %	< 1 %	70 %	*100 %	90 %	< 1 %	< 1 %	90 %
<b>1 hr</b>	100 %	< 1 %	< 1 %	80 %	*100 %	90 %	< 1 %	< 1 %	90 %
<b>10 min</b>	100 %	< 1 %	< 1 %	60 %	*100 %	90 %	< 1 %	< 1 %	100 %

<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	*80 %	< 1 %	< 1 %	90 %	< 1 %	< 1 %	80 %	< 1 %	90 %
<b>4 hr</b>	*90 %	*100 %	*100 %	100 %	*100 %	*100 %	90 %	90 %	100 %
<b>1 hr</b>	*100 %	*100 %	*100 %	90 %	*100 %	*100 %	90 %	90 %	100 %
<b>10 min</b>	*100 %	*100 %	*100 %	100 %	*100 %	100 %	90 %	90 %	100 %

\* Indicates etching upon the surface.

Test Results – Stain Repellency

## % Stain Removal

"Lakestone Calumet Flats"									
Untreated Control									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	100 %	*100 %	*90 %	60 %	*100 %	80 %	80 %	80 %	80 %
4 hr	100 %	*100 %	*100 %	60 %	*100 %	100 %	80 %	80 %	80 %
1 hr	100 %	<1%	<1%	70 %	80 %	100 %	80 %	90 %	90 %
10 min	100 %	*100 %	*100 %	60 %	*100 %	100 %	80 %	80 %	90 %

Stand Off® SLX100™ Water & Oil Repellent									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	80 %	*100 %	20 %	80 %	<1%	70 %	80 %	90 %	90 %
4 hr	*90 %	*100 %	*100 %	100 %	100 %	*100 %	90 %	90 %	100 %
1 hr	*100 %	*100 %	*90%	100 %	*100 %	*100 %	90 %	90 %	100 %
10 min	*100 %	*100 %	*100 %	100 %	*100 %	*100 %	90 %	90 %	100 %

"Quartz French Country"									
Untreated Control									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	60 %	<1 %	<1 %	60 %	80 %	80 %	<1 %	<1 %	60 %
4 hr	80 %	*95 %	90 %	80 %	60 %	80 %	<1 %	<1 %	80 %
1 hr	80 %	*90 %	95 %	80 %	65 %	80 %	<1 %	<1 %	80 %
10 min	100 %	*100 %	100 %	80 %	80 %	85 %	<1 %	<1 %	85 %

Stand Off® SLX100™ Water & Oil Repellent									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
24 hr	90 %	*100 %	<1 %	60 %	40 %	<1 %	<1 %	<1 %	80 %
4 hr	100 %	*100 %	*100 %	60 %	40 %	<1 %	100 %	20 %	60 %
1 hr	100 %	*100 %	*100 %	60 %	80 %	80 %	80 %	80 %	60 %
10 min	100 %	*100 %	*100 %	60 %	90 %	90 %	<1 %	<1 %	80 %

\* Indicates etching upon the surface.

**Test Results – Stain Repellency****% Stain Removal**

<b>“Quartz Pennsylvania”</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	80 %	<1 %	<1 %	70 %	*60 %	80 %	<1 %	<1 %	60 %
<b>4 hr</b>	90 %	*100 %	<1 %	60 %	*60 %	<1 %	<1 %	<1 %	60 %
<b>1 hr</b>	90 %	*100 %	*100 %	70 %	*90 %	60 %	<1 %	<1 %	70 %
<b>10 min</b>	90 %	*100 %	*100 %	70 %	*90 %	90 %	<1 %	<1 %	80 %

<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	90 %	*100 %	*100 %	60 %	90 %	90 %	60 %	60 %	90 %
<b>4 hr</b>	80 %	*100 %	*100 %	90 %	*100 %	90 %	90 %	90 %	100 %
<b>1 hr</b>	90 %	*100 %	*100 %	70 %	90 %	90 %	60 %	60 %	90 %
<b>10 min</b>	90 %	*100 %	*100 %	70 %	90 %	90 %	60 %	60 %	90 %

<b>“Quartz Valley Forge”</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	*100 %	<1 %	<1 %	*100 %	<1 %	80 %	<1 %	<1 %	*100 %
<b>4 hr</b>	*100 %	100 %	*100 %	*100 %	*100 %	100 %	90 %	90 %	*100 %
<b>1 hr</b>	*100 %	100 %	*95 %	*100 %	*100 %	100 %	90 %	90 %	*100 %
<b>10 min</b>	*100 %	100 %	*100 %	*100 %	*100 %	100 %	90 %	90 %	*100 %

<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	90 %	<1 %	<1 %	90 %	*100 %	*100 %	<1 %	<1 %	90 %
<b>4 hr</b>	90 %	*80 %	<1 %	100 %	*100 %	*100 %	<1 %	<1 %	80 %
<b>1 hr</b>	90 %	*80 %	<1 %	100 %	*100 %	*100 %	<1 %	<1 %	80 %
<b>10 min</b>	90 %	*90 %	<1 %	100 %	*100 %	*100 %	<1 %	<1 %	80 %

\* Indicates etching upon the surface.

**Test Results – Stain Repellency****% Stain Removal**

<b>"River Rock Adirondack"</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	100 %	<1 %	<1 %	80 %	80 %	80 %	<1 %	<1 %	80 %
<b>4 hr</b>	100 %	<1 %	<1 %	80 %	*100 %	*100 %	<1 %	<1 %	100 %
<b>1 hr</b>	80 %	*100 %	*90 %	80 %	*100 %	80 %	<1 %	<1 %	80 %
<b>10 min</b>	100 %	*100 %	*90 %	100 %	100 %	100 %	<1 %	<1 %	100 %

<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	90 %	<1 %	<1 %	20 %	20 %	20 %	<1 %	<1 %	90 %
<b>4 hr</b>	90 %	*100 %	*100 %	100 %	90 %	<1 %	<1 %	<1 %	90 %
<b>1 hr</b>	90 %	*100 %	*100 %	80 %	*100 %	80 %	<1 %	<1 %	90 %
<b>10 min</b>	100 %	*100 %	*100 %	95 %	95 %	95 %	80 %	80 %	95 %

<b>"Top Rock Brown"</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	90 %	< 1 %	< 1 %	< 1 %	*100 %	< 1 %	80 %	< 1 %	90 %
<b>4 hr</b>	90 %	*100 %	*100 %	*100 %	*100 %	90 %	80 %	60 %	90 %
<b>1 hr</b>	90 %	*100 %	*100 %	*100 %	*100 %	*100 %	80 %	60 %	90 %
<b>10 min</b>	90 %	*100 %	*100 %	*100 %	*100 %	100 %	80 %	60 %	90 %

<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	90 %	< 1 %	< 1 %	60 %	70 %	80 %	< 1 %	< 1 %	80 %
<b>4 hr</b>	90 %	< 1 %	90 %	90 %	*100 %	*100 %	< 1 %	< 1 %	90 %
<b>1 hr</b>	80 %	70 %	< 1 %	60 %	80 %	80 %	< 1 %	< 1 %	80 %
<b>10 min</b>	80 %	100 %	60 %	80 %	80 %	80 %	< 1 %	< 1 %	80 %

\* Indicates etching upon the surface.

**Test Results – Stain Repellency****% Stain Removal**

<b>“Top Rock Pennsylvania”</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	*100 %	>1 %	>1 %	80 %	*100 %	*100 %	>1 %	>1 %	80 %
<b>4 hr</b>	*100 %	*80 %	*80 %	80 %	100 %	100 %	>1 %	>1 %	80 %
<b>1 hr</b>	100 %	60 %	*100 %	100 %	80 %	100 %	>1 %	>1 %	80 %
<b>10 min</b>	100%	*100 %	*100 %	100 %	*100 %	100 %	>1 %	90 %	90 %

<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	*80 %	*100 %	*100 %	100 %	20 %	20 %	>1 %	>1 %	80 %
<b>4 hr</b>	*100 %	*100 %	*100 %	100 %	*100 %	100 %	90 %	90 %	90 %
<b>1 hr</b>	*100 %	*100 %	*100 %	100 %	*100 %	*100 %	90 %	90 %	90 %
<b>10 min</b>	*100 %	*100 %	*100 %	100 %	*100 %	90 %	80 %	80 %	90 %

<b>“Top Rock Realen”</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	90 %	<1 %	<1 %	90 %	80 %	90 %	<1 %	<1 %	90 %
<b>4 hr</b>	100 %	<1 %	<1 %	90 %	90 %	90 %	<1 %	<1 %	90 %
<b>1 hr</b>	100 %	<1 %	<1 %	90 %	90 %	90 %	<1 %	<1 %	90 %
<b>10 min</b>	100 %	<1 %	<1 %	100 %	90 %	90 %	<1 %	<1 %	90 %

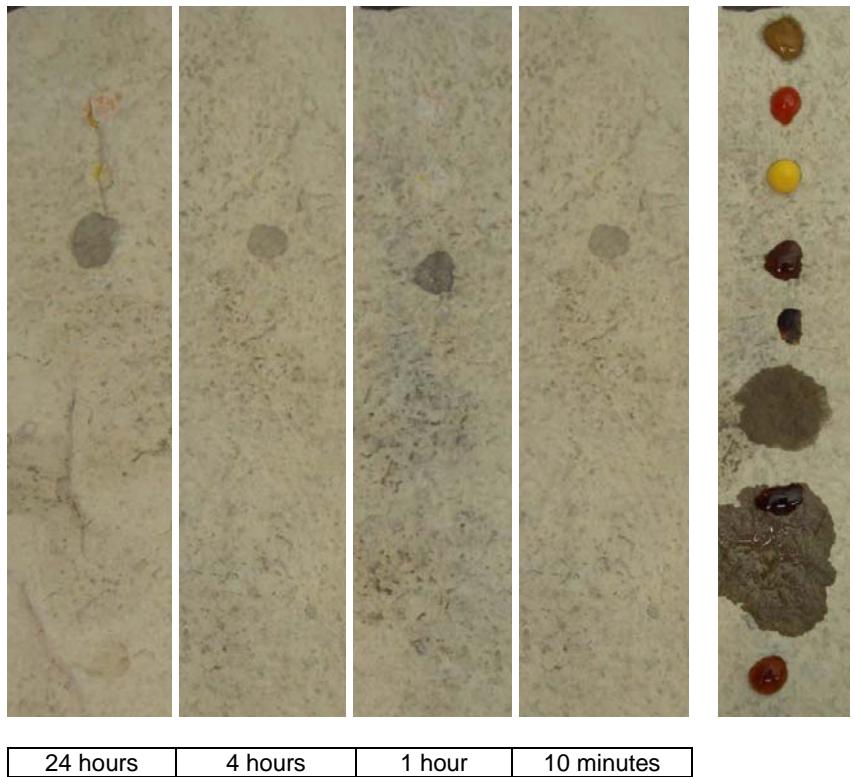
<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	100 %	<1 %	<1 %	90 %	<1 %	100 %	<1 %	<1 %	100 %
<b>4 hr</b>	100 %	100 %	*100 %	90 %	*100 %	90 %	90 %	90 %	90 %
<b>1 hr</b>	80 %	100 %	*100 %	90 %	*90 %	90 %	90 %	90 %	90 %
<b>10 min</b>	90 %	100 %	*100 %	90 %	*100 %	90 %	90 %	90 %	90 %

\* Indicates etching upon the surface.

**Test Results – Stain Repellency****% Stain Removal**

<b>"Top Rock Warm Spring Flats"</b>									
<b>Untreated Control</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	90 %	<1 %	<1 %	80 %	80 %	80 %	<1 %	<1 %	80 %
<b>4 hr</b>	90 %	<1 %	<1 %	80 %	*100 %	*100 %	<1 %	<1 %	80 %
<b>1 hr</b>	100 %	*100 %	*90 %	*60 %	*100 %	80 %	<1 %	<1 %	80 %
<b>10 min</b>	100 %	*100 %	*90 %	*100 %	*100 %	*100 %	<1 %	<1 %	80 %
<b>Stand Off® SLX100™ Water &amp; Oil Repellent</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>24 hr</b>	90 %	<1	*100 %	*90 %	*100 %	90 %	80 %	80 %	90 %
<b>4 hr</b>	*100 %	*100 %	*100 %	*100 %	*100 %	*100 %	80 %	80 %	100 %
<b>1 hr</b>	100 %	*100 %	*100 %	*100 %	*100 %	*100 %	90 %	80 %	*100 %
<b>10 min</b>	100 %	*100 %	*100 %	*100 %	*100 %	100 %	100 %	100 %	100 %

\* Indicates etching upon the surface.

**Photographs – Stain Repellency****“Heritage Old Ohio Flat”****Untreated Surface**

24 hours	4 hours	1 hour	10 minutes
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**Stand Off® SLX100™ Water & Oil Repellent**

24 hours	4 hours	1 hour	10 minutes
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### Conclusions – Stain Repellency

Based upon laboratory evaluations, Stand Off® Stone SLX100™ Water & Oil Repellent improved the surface beading of the samples. In addition, the treatment was effective in repelling the staining agents from the submitted samples. Some stains resulted in etching on both the treated and untreated surface. The etching on the treated surface was not as distinct as the untreated surface. Stand Off® Stone SLX100™ Water & Oil Repellent protected the samples from oil stain saturation.

### Recommendations – Stain Repellency

Sample	Stain Repellent	Maintenance Cleaner
"Fieldstone Bucktown" "Fieldstone Bucktown" "Fieldstone Canyon Gray" "Fieldstone Colorado" "Fieldstone Mountain" "Fieldstone Pennsylvania" "Fieldstone Valley Forge" "Fieldstone Warm Springs" "Heritage Bucktown" "Heritage Chardonnay" "Heritage Gray Flat" "Heritage Ohio Flat" "Heritage Old Ohio Flat" "Heritage Penn State" "Heritage Pennsylvania" "Heritage Tan Flat" "Heritage Warm Springs" "Heritage Wisconsin"	* Stand Off® SLX100™ Water & Oil Repellent	Enviro Klean® 2010 All Surface Cleaner

**Recommendations – Stain Repellency**

Sample	Stain Repellent	Maintenance Cleaner
"Lakestone Calumet Flat" "Quartz French Country" "Quartz Pennsylvania" "Quartz Valley Forge" "River Rock Adirondack" "Top Rock Brown" "Top Rock Pennsylvania" "Top Rock Realen" "Top Rock Warm Spring Flats"	* Stand Off® SLX100™ Water & Oil Repellent	Enviro Klean® 2010 All Surface Cleaner

\* NOTE: Stand Off® SLX100™ Water & Oil Repellent is manufactured and marketed in compliance with VOC regulations. This product may not be suitable for sale in states and districts with more restrictive regulations.

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

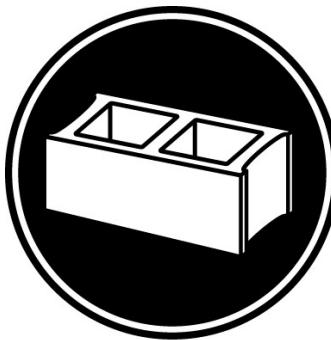
Apply all products in accordance with the manufacturer's recommendation provided on container labels and product data sheets. On-site testing should be conducted to determine the most appropriate stain repellent product and procedures for a particular project. See product literature for additional application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

Alia Bober  
Project Testing Laboratory Technician



**PALLET TAG PROGRAM**  
*Laboratory Report*

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*Project No. 0901-03*

***Prepared For:***  
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***Prepared By:***  
AMT Laboratories  
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