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**Attachments**

    Technical Services TECH Note RILEM Tube Test Procedures

    Product Data literature for all products evaluated

**Submitted Information**

**For:** Jeanie Wunder, Share Building Products  
**cc:** Brian Koenings  
 John Bourne

**Subject:** Share Building Products  
 Germantown, WI

**Date:** September 25, 2006

**Project:** 0608-08 PTP

**Samples Submitted:** 19 types of manufactured stone in various sizes, shapes, and colors

Sample	Color	Size
"Baileys Harbor Fieldstone"	Brown, White, Gray, Light Brown	Various
"Cedar Creek Weatheredge"	Gray, Brown, Light Brown, Red, Green, White	Various
"Chardonnay Limestone"	Red, Brown, Black, Green, White	Various
"Cream Limestone"	Light Brown, White	Various
"Donegal LedgeStone"	Light Brown, Red, Brown, Charcoal	Various
"Earthblend River Rock"	Tan, Brown, Dark Red, Red	Various
"Galena LedgeStone"	White, Red	Various
"Hillside Splitrock"	Tan, Green, Red, Brown, Gray	Various
"Niagara Weatheredge"	Brown, White, Gray, Light Brown	Various
"Penn State Limestone"	Gray, Tan	Various
"Rockfield Limestone"	Brown, Red, Gray	Various
"Shannon Weatheredge"	Light Brown, Red, Brown, Charcoal, Tan	Various
"Shoreblend River Rock"	Tan, Brown, Dark Red, Red, Green	Various
"Splitface Granite"	White, Red, Black, Dark red, Gray	Various
"Stillwater LedgeStone"	Light Brown, Brown, Gray	Various
"Teelin Bay Fieldstone"	Light Brown, Charcoal, Brown, Red	Various
"Winona Weatheredge"	Brown, Black, Gray, Tan	Various
"Wisconsin River Rock"	White, Red, Black, Dark Red	Various
"Wisconsin Weatheredge"	White, Red, Brown	Various

Submitted by: Brian Koenings

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## **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.

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## **Purpose of Testing**

Nineteen types of manufactured stone 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 repellents, graffiti control products, and color/sheen enhancement products suitable for manufactured stone were evaluated.

**New Construction Cleaning** – Sure Klean® Manufactured Stone Cleaner and Enviro Klean® Safety Klean were tested at various dilutions to determine the optimum cleaner/cure time combination for complete removal of laboratory applied Type S mortar from the submitted manufactured stone while limiting surface alterations to the decorative finish. 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 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 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** – Sure Klean® Weather Seal Siloxane PD, Sure Klean® Weather Seal GP, and Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II were evaluated for their ability to provide water repellency to the submitted samples.

**Graffiti Control** – Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II was evaluated for its ability to repel graffiti from the submitted samples. Sure Klean® Fast Acting Stripper and Defacer Eraser® Graffiti Wipe were evaluated for their ability to remove graffiti from the submitted samples.

**Color and Sheen Enhancement** – Stand Off® Gloss 'N Guard WB was evaluated for its ability to provide color and sheen enhancement to the submitted samples.

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

<b>Sample</b>	<b>Product</b>	<b>Dilution</b>
All Submitted Manufactured Stone	Sure Klean® Manufactured Stone Cleaner	(1:2), (1:3)
	Enviro Klean® Safety Klean	(1:2), (1:3)

**Protective Water Repellent Products Evaluated**

<b>Sample</b>	<b>Product</b>	<b>Dilution</b>
All Submitted Manufactured Stone	Sure Klean® Weather Seal Siloxane PD	Concentrate
	Sure Klean® Weather Seal GP	Concentrate
	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	Concentrate

**Graffiti Repellent Products Evaluated**

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

**Graffiti Removal Products Evaluated**

<b>Sample</b>	<b>Product</b>	<b>Dilution</b>
All Submitted Manufactured Stone	Sure Klean® Fast Acting Stripper	Concentrate
	Defacer Eraser® Graffiti Wipe	Concentrate

**Color and Sheen Enhancement Products Evaluated**

<b>Sample</b>	<b>Product</b>	<b>Dilution</b>
All Submitted Manufactured Stone	Stand Off® Gloss 'N Guard WB	Concentrate

**Dilution ratios refer to mixtures of concentrated product : fresh water.**

**New Construction Cleaning**

These cleaning trials were conducted to determine the optimal cleaning/cure time combination to most efficiently remove Type S mortar from the submitted samples while limiting surface alterations to the decorative finish.

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

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

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

**Enviro Klean® Safety Klean** – An effective, safe, alternative to acidic compounds for cleaning brick, tile and concrete surfaces. Safety Klean rids new masonry construction of excess mortar, dirt and other common job site soiling. It’s ideal for projects where traditional acidic cleaners are not allowed. Non-fuming Safety Klean contains no hydrochloric or other traditional inorganic acids and is safe for use on and around most metal surfaces. Always test. Additionally, it is up to 70 percent more effective than citric and glycolic acids and 50 percent more effective than phosphoric acid.

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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® Manufactured Stone Cleaner .....	3-5 minutes
Enviro Klean® Safety Klean.....	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>“Baileys Harbor Fieldstone”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	100%	100%	98%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:3	100%	100%	100%
<b>“Cedar Creek Weatheredge”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:3	100%	100%	100%
<b>“Chardonnay Limestone”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:3	100%	100%	100%
<b>“Cream Limestone”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:3	100%	100%	100%
<b>“Donegal LedgeStone”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:3	100%	100%	100%
<b>“Earthblend River Rock”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:3	100%	100%	100%
<b>“Galena LedgeStone”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:3	100%	100%	100%
<b>“Hillside Splitrock”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:3	100%	100%	100%

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

<b>“Niagara Weatheredge”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:3	100%	100%	100%
<b>“Penn State Limestone”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:3	100%	100%	100%
<b>“Rockfield Limestone”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	100%	100%	98%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:3	100%	100%	100%
<b>“Shannon Weatheredge”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:3	100%	100%	100%
<b>“Shoreblend River Rock”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:3	100%	100%	100%
<b>“Splitface Granite”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:3	100%	100%	100%
<b>“Stillwater LedgeStone”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	100%	100%	100%
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:3	100%	100%	100%
<b>“Teelin Bay Fieldstone”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	100%	100%	98%
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	100%	98%	98%
Enviro Klean <sup>®</sup> Safety Klean	1:2	100%	100%	100%
Enviro Klean <sup>®</sup> Safety Klean	1:3	100%	100%	100%

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

<b>“Winona Weatheredge”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Manufactured Stone Cleaner	1:2	100%	100%	100%
Sure Klean® Manufactured Stone Cleaner	1:3	100%	100%	100%
Enviro Klean® Safety Klean	1:2	100%	100%	100%
Enviro Klean® Safety Klean	1:3	100%	100%	100%
<b>“Wisconsin River Rock”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Manufactured Stone Cleaner	1:2	100%	100%	100%
Sure Klean® Manufactured Stone Cleaner	1:3	100%	100%	100%
Enviro Klean® Safety Klean	1:2	100%	100%	100%
Enviro Klean® Safety Klean	1:3	100%	100%	100%
<b>“Wisconsin Weatheredge”</b>				
<b>Product</b>	<b>Dilution</b>	<b>3 day</b>	<b>7 day</b>	<b>14 day</b>
Sure Klean® Manufactured Stone Cleaner	1:2	100%	100%	100%
Sure Klean® Manufactured Stone Cleaner	1:3	100%	100%	100%
Enviro Klean® Safety Klean	1:2	100%	100%	100%
Enviro Klean® Safety Klean	1:3	100%	100%	100%

**Test Results – Limiting Surface Alterations**

<b>Substrate: Manufactured Stone</b>		<b>Pigment Color: “Baileys Harbor Fieldstone”</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® Manufactured Stone Cleaner	1:2	0	0	0	0
Sure Klean® Manufactured Stone Cleaner	1:3	0	0	0	0
Enviro Klean® Safety Klean	1:2	3	0	2	0
Enviro Klean® Safety Klean	1:3	2	0	1	0
<b>Substrate: Manufactured Stone</b>		<b>Pigment Color: “Cedar Creek Weatheredge”</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® Manufactured Stone Cleaner	1:2	1	0	0	0
Sure Klean® Manufactured Stone Cleaner	1:3	0	0	0	0
Enviro Klean® Safety Klean	1:2	2	0	1	0
Enviro Klean® Safety Klean	1:3	2	0	1	0
<b>Substrate: Manufactured Stone</b>		<b>Pigment Color: “Chardonnay Limestone”</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® Manufactured Stone Cleaner	1:2	1	0	0	0
Sure Klean® Manufactured Stone Cleaner	1:3	1	0	0	0
Enviro Klean® Safety Klean	1:2	3	0	2	0
Enviro Klean® Safety Klean	1:3	3	0	2	0

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

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



<b>Substrate:</b> Manufactured Stone		<b>Pigment Color:</b> "Cream Limestone"				
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	1	0	0	0	
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	0	0	0	0	
Enviro Klean <sup>®</sup> Safety Klean	1:2	2	0	1	0	
Enviro Klean <sup>®</sup> Safety Klean	1:3	2	0	1	0	
<b>Substrate:</b> Manufactured Stone		<b>Pigment Color:</b> "Donegal LedgeStone"				
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	0	0	0	0	
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	0	0	0	0	
Enviro Klean <sup>®</sup> Safety Klean	1:2	1	0	1	0	
Enviro Klean <sup>®</sup> Safety Klean	1:3	1	0	1	0	
<b>Substrate:</b> Manufactured Stone		<b>Pigment Color:</b> "Earthblend River Rock"				
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	1	0	1	0	
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	1	0	1	0	
Enviro Klean <sup>®</sup> Safety Klean	1:2	2	0	2	0	
Enviro Klean <sup>®</sup> Safety Klean	1:3	2	0	2	0	
<b>Substrate:</b> Manufactured Stone		<b>Pigment Color:</b> "Galena LedgeStone"				
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	2	0	1	0	
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	1	0	0	0	
Enviro Klean <sup>®</sup> Safety Klean	1:2	2	0	1	0	
Enviro Klean <sup>®</sup> Safety Klean	1:3	2	0	1	0	
<b>Substrate:</b> Manufactured Stone		<b>Pigment Color:</b> "Hillside Splitrock"				
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	1	0	1	0	
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	1	0	1	0	
Enviro Klean <sup>®</sup> Safety Klean	1:2	2	0	2	0	
Enviro Klean <sup>®</sup> Safety Klean	1:3	2	0	2	0	
<b>Substrate:</b> Manufactured Stone		<b>Pigment Color:</b> "Niagara Weatheredge"				
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	1	0	1	0	
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	0	0	0	0	
Enviro Klean <sup>®</sup> Safety Klean	1:2	1	0	1	0	
Enviro Klean <sup>®</sup> Safety Klean	1:3	1	0	1	0	
<b>Substrate:</b> Manufactured Stone		<b>Pigment Color:</b> "Penn State Limestone"				
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	1	0	1	0	
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	0	0	0	0	
Enviro Klean <sup>®</sup> Safety Klean	1:2	1	0	1	0	
Enviro Klean <sup>®</sup> Safety Klean	1:3	1	0	1	0	

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

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

**Test Results – Limiting Surface Alterations**

<b>Substrate:</b> Manufactured Stone		<b>Pigment Color:</b> "Rockfield Limestone"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	2	0	2	0
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	1	0	1	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	3	0	3	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	3	0	3	0
<b>Substrate:</b> Manufactured Stone		<b>Pigment Color:</b> "Shannon Weatheredge"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	0	0	0	0
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	3	0	3	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	2	0	2	0
<b>Substrate:</b> Manufactured Stone		<b>Pigment Color:</b> "Shoreblend River Rock"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	1	0	1	0
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	1	0	1	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	2	0	2	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	2	0	2	0
<b>Substrate:</b> Manufactured Stone		<b>Pigment Color:</b> "Splitface Granite"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	0	0	0	0
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	1	0	1	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	1	0	1	0
<b>Substrate:</b> Manufactured Stone		<b>Pigment Color:</b> "Stillwater LedgeStone"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	1	0	1	0
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	1	0	1	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	1	0	1	0
<b>Substrate:</b> Manufactured Stone		<b>Pigment Color:</b> "Teelin Bay Fieldstone"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	0	0	0	0
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	3	0	3	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	2	0	2	0
<b>Substrate:</b> Manufactured Stone		<b>Pigment Color:</b> "Winona Weatheredge"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	0	0	0	0
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	1	0	1	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	1	0	1	0

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

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

**Test Results – Limiting Surface Alterations**

<b>Substrate:</b> Manufactured Stone		<b>Pigment Color:</b> "Wisconsin River Rock"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	2	0	2	0
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	3	0	3	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	3	0	3	0

<b>Substrate:</b> Manufactured Stone		<b>Pigment Color:</b> "Wisconsin Weatheredge"			
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:2	1	0	1	0
Sure Klean <sup>®</sup> Manufactured Stone Cleaner	1:3	0	0	0	0
Enviro Klean <sup>®</sup> Safety Klean	1:2	3	0	3	0
Enviro Klean <sup>®</sup> Safety Klean	1:3	3	0	3	0

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

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

**Photographs – New Construction Cleaning**

**"Niagara Weatheredge"; 3 Day Cleaning**



Sure Klean <sup>®</sup> Manufactured Stone Cleaner (1:2)	Sure Klean <sup>®</sup> Manufactured Stone Cleaner (1:3)	Enviro Klean <sup>®</sup> Safety Klean (1:2)	Enviro Klean <sup>®</sup> Safety Klean (1:3)	Untreated Control
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**"Niagara Weatheredge"; 7 Day Cleaning**



Sure Klean <sup>®</sup> Manufactured Stone Cleaner (1:2)	Sure Klean <sup>®</sup> Manufactured Stone Cleaner (1:3)	Enviro Klean <sup>®</sup> Safety Klean (1:2)	Enviro Klean <sup>®</sup> Safety Klean (1:3)	Untreated Control
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**Photographs – New Construction Cleaning**

**“Niagara Weatheredge”; 14 Day Cleaning**



**Photographs – Limiting Surface Alterations**

**“Niagara Weatheredge” Limiting Surface Alterations**



**“Bailey’s Harbor Fieldstone” Limiting Surface Alterations**



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

Based on the test results, all of the PROSOCO, Inc. products tested performed well in removing excess Type S mortar from the submitted samples even after allowing the mortar to remain on the surface of the samples for 14 days.

**NOTE:** All dilutions of Enviro Klean® Safety Klean tested removed slight to heavy amounts of the pigmented finish from the surface of the submitted samples resulting in a slight to heavy color change. Therefore, Enviro Klean® Safety Klean is not recommended for new construction cleaning on the submitted samples.

Sure Klean® Manufactured Stone Cleaner diluted with two and/or three parts water removed slight amounts of the pigmented finish from the surface of most of the submitted samples. It is recommended that job-site testing be performed in an inconspicuous area before attempting overall cleaning to determine if the change in appearance is acceptable.

It is recommended that the selected cleaners always be used in the lowest possible concentration. It should be rinsed with the lowest pressure of water as practical to minimize removal of the decorative finish. Excessive pressure, water volume, and/or repeated application of the recommended products may combine to damage or remove decorative finishes. To facilitate easier removal of excess mortar and construction dirt while minimizing any potential surface alterations to the decorative finish, clean within 3 days of construction for Type S mortar.

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

Recommendations for new construction cleaning for the manufactured stone submitted by Share Building Products, Germantown, WI are provided in the charts below. Recommendations are based on the optimum dilution for complete removal of mortar while limiting surface alterations.

<b>Sample</b>	<b>New Construction Cleaning</b> (Type S mortar, 14 day cleaning)
All Submitted Manufactured Stone	Sure Klean® Manufactured Stone Cleaner (1:3)

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.

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## **Protective Water Repellents**

The testing described below evaluates the suitability of water repellent treatments.

The surface treatments evaluated were selected for their suitability for application based on the following selection criteria:

1. Weatherproofing properties
  2. Color change
  3. Ease of application
- 

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

**Sure Klean® Weather Seal Siloxane PD** – A ready-to-use, water-based silane/siloxane water repellent for concrete, GFRC, and most masonry and stucco surfaces. Siloxane PD penetrates more deeply than conventional water repellents. 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.

**Sure Klean® Weather Seal GP** – 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 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.

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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.

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**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 wind blown 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 98 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:

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

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

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

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

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



**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>“Baileys Harbor Fieldstone”</b>	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	-0.5	--
Sure Klean <sup>®</sup> Weather Seal Siloxane PD	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal GP	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control II	-0.0	<b>AA</b>
<b>“Cedar Creek Weatheredge”</b>	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	-0.9	--
Sure Klean <sup>®</sup> Weather Seal Siloxane PD	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal GP	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control II	-0.0	<b>AA</b>
<b>“Chardonnay Limestone”</b>	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	-0.3	--
Sure Klean <sup>®</sup> Weather Seal Siloxane PD	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal GP	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control II	-0.0	<b>AA</b>
<b>“Cream Limestone”</b>	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	-0.4	--
Sure Klean <sup>®</sup> Weather Seal Siloxane PD	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal GP	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control II	-0.0	<b>AA</b>
<b>“Donegal LedgeStone”</b>	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	-0.9	--
Sure Klean <sup>®</sup> Weather Seal Siloxane PD	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal GP	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control II	-0.0	<b>AA</b>
<b>“Earthblend River Rock”</b>	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	-0.7	--
Sure Klean <sup>®</sup> Weather Seal Siloxane PD	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal GP	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control II	-0.0	<b>AA</b>
<b>“Galena LedgeStone”</b>	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	-0.6	--
Sure Klean <sup>®</sup> Weather Seal Siloxane PD	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal GP	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control II	-0.0	<b>AA</b>
<b>“Hillside Splitrock”</b>	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	-0.3	--
Sure Klean <sup>®</sup> Weather Seal Siloxane PD	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal GP	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control II	-0.0	<b>AA</b>
<b>“Niagara Weatheredge”</b>	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	-0.6	--
Sure Klean <sup>®</sup> Weather Seal Siloxane PD	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal GP	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control II	-0.0	<b>AA</b>
<b>“Penn State Limestone”</b>	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	-0.4	--
Sure Klean <sup>®</sup> Weather Seal Siloxane PD	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal GP	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control II	-0.0	<b>AA</b>

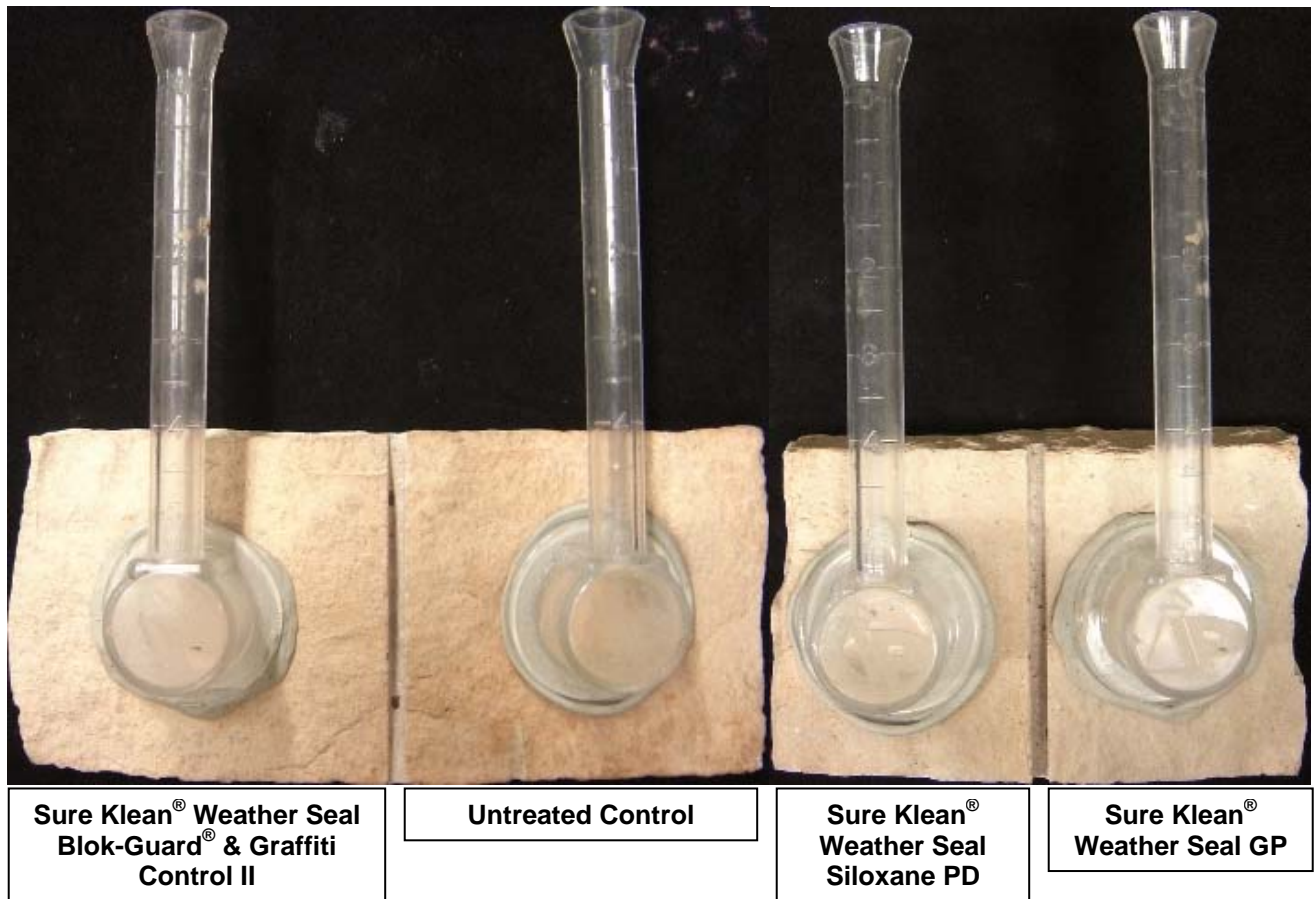


**Test Results – Protective Water Repellents****Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes****AA = Above Average****A = Average****BA = Below Average**

<b>“Rockfield Limestone”</b>	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	-0.4	--
Sure Klean <sup>®</sup> Weather Seal Siloxane PD	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal GP	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control II	-0.0	<b>AA</b>
<b>“Shannon Weatheredge”</b>	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	-0.5	--
Sure Klean <sup>®</sup> Weather Seal Siloxane PD	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal GP	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control II	-0.0	<b>AA</b>
<b>“Shoreblend River Rock”</b>	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	-0.3	--
Sure Klean <sup>®</sup> Weather Seal Siloxane PD	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal GP	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control II	-0.0	<b>AA</b>
<b>“Splitface Granite”</b>	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	-0.4	--
Sure Klean <sup>®</sup> Weather Seal Siloxane PD	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal GP	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control II	-0.0	<b>AA</b>
<b>“Stillwater LedgeStone”</b>	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	-0.3	--
Sure Klean <sup>®</sup> Weather Seal Siloxane PD	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal GP	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control II	-0.0	<b>AA</b>
<b>“Teelin Bay Fieldstone”</b>	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	-0.7	--
Sure Klean <sup>®</sup> Weather Seal Siloxane PD	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal GP	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control II	-0.0	<b>AA</b>
<b>“Winona Weatheredge”</b>	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	-0.6	--
Sure Klean <sup>®</sup> Weather Seal Siloxane PD	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal GP	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control II	-0.0	<b>AA</b>
<b>“Wisconsin River Rock”</b>	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	-0.4	--
Sure Klean <sup>®</sup> Weather Seal Siloxane PD	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal GP	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control II	-0.0	<b>AA</b>
<b>“Wisconsin Weatheredge”</b>	<b>Results in mL loss</b>	<b>Ranking</b>
Untreated Control	-0.7	--
Sure Klean <sup>®</sup> Weather Seal Siloxane PD	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal GP	-0.0	<b>AA</b>
Sure Klean <sup>®</sup> Weather Seal Blok-Guard <sup>®</sup> & Graffiti Control II	-0.0	<b>AA</b>

**Photographs – Protective Water Repellents**

**“Galena LedgeStone”; Vertical RILEM II.4, 5.0 milliliters, 20 minutes**



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

Test results indicate that all of the water repellents tested exhibited above average water repellency on the submitted samples. In addition, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II provided a slight to moderate color enhancement to all of the submitted samples. Sure Klean® Weather Seal Siloxane PD and Sure Klean® Weather Seal GP did not alter the appearance of any of the samples.

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

Recommendations for water repellent treatments for the manufactured stone submitted by Share Building Products, Germantown, WI are provided in the chart below. Recommendations are based on the treatments that proved most effective at providing water repellency on the submitted manufactured stone.

Sample	Protective Water Repellents
All Submitted Manufactured Stone	Sure Klean® Weather Seal Siloxane PD OR Sure Klean® Weather Seal GP OR Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II

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.

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

#### **Products Evaluated for Graffiti Repellency**

**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**

**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, wood and metal surfaces.

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

#### **Graffiti Agents**

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

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

Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II was applied in a wet-on-wet brushing application in accordance with the current PROSOCO, Inc. Product Data Sheet application instructions to sections of the manufactured stone samples. The samples were allowed to cure for at least one day. 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 Defacer Eraser® Graffiti Wipe and Sure Klean® Fast Acting Stripper.

### **Test Methods – Graffiti Control**

Chemical cleaners were evaluated using the following procedure:

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

Graffiti Wipe .....	5 minutes
Fast Acting Stripper.....	20 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>“Baileys Harbor Fieldstone”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	85%	70%	90%	<b>84%</b>
Graffiti Wipe	70%	75%	60%	60%	<b>66%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	99%	90%	99%	<b>96%</b>
Graffiti Wipe	98%	99%	70%	95%	<b>91%</b>
<b>“Cedar Creek Weatheredge”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	85%	85%	70%	90%	<b>83%</b>
Graffiti Wipe	30%	75%	60%	60%	<b>56%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	99%	80%	95%	<b>91%</b>
Graffiti Wipe	95%	90%	80%	90%	<b>89%</b>
<b>“Chardonnay Limestone”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	80%	80%	80%	80%	<b>80%</b>
Graffiti Wipe	20%	80%	80%	80%	<b>65%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	99%	85%	85%	90%	<b>90%</b>
Graffiti Wipe	99%	85%	85%	95%	<b>91%</b>
<b>“Cream Limestone”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	90%	50%	60%	<b>73%</b>
Graffiti Wipe	40%	20%	50%	50%	<b>40%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	98%	90%	90%	90%	<b>92%</b>
Graffiti Wipe	95%	90%	90%	90%	<b>91%</b>
<b>“Donegal LedgeStone”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	80%	90%	90%	90%	<b>88%</b>
Graffiti Wipe	40%	70%	70%	80%	<b>65%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	95%	95%	99%	<b>96%</b>
Graffiti Wipe	99%	95%	90%	95%	<b>95%</b>
<b>“Earthblend River Rock”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	85%	90%	60%	60%	<b>74%</b>
Graffiti Wipe	30%	90%	60%	80%	<b>65%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	100%	70%	95%	<b>90%</b>
Graffiti Wipe	95%	90%	60%	90%	<b>84%</b>
<b>“Galena LedgeStone”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	80%	90%	40%	40%	<b>63%</b>
Graffiti Wipe	40%	40%	40%	30%	<b>38%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	98%	70%	90%	<b>88%</b>
Graffiti Wipe	95%	98%	70%	95%	<b>90%</b>

**Test Results – Graffiti Control**

<b>“Hillside Splitrock”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	90%	70%	60%	<b>78%</b>
Graffiti Wipe	40%	90%	70%	70%	<b>68%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	99%	100%	90%	100%	<b>97%</b>
Graffiti Wipe	95%	100%	80%	95%	<b>93%</b>
<b>“Niagara Weatheredge”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	80%	90%	80%	80%	<b>83%</b>
Graffiti Wipe	40%	90%	60%	60%	<b>63%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	99%	90%	95%	<b>95%</b>
Graffiti Wipe	90%	95%	90%	90%	<b>91%</b>
<b>“Penn State Limestone”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	80%	95%	70%	70%	<b>79%</b>
Graffiti Wipe	20%	80%	50%	80%	<b>58%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	100%	90%	90%	<b>94%</b>
Graffiti Wipe	90%	100%	90%	90%	<b>93%</b>
<b>“Rockfield Limestone”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	80%	90%	20%	70%	<b>65%</b>
Graffiti Wipe	20%	70%	20%	70%	<b>45%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	100%	95%	60%	95%	<b>88%</b>
Graffiti Wipe	100%	90%	60%	90%	<b>85%</b>
<b>“Shannon Weatheredge”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	85%	98%	80%	90%	<b>88%</b>
Graffiti Wipe	20%	80%	70%	75%	<b>61%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	99%	100%	100%	99%	<b>100%</b>
Graffiti Wipe	99%	100%	100%	98%	<b>99%</b>
<b>“Shoreblend River Rock”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	85%	90%	60%	60%	<b>74%</b>
Graffiti Wipe	30%	90%	60%	80%	<b>65%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	100%	70%	95%	<b>90%</b>
Graffiti Wipe	95%	90%	60%	90%	<b>84%</b>
<b>“Splitface Granite”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	80%	95%	70%	80%	<b>81%</b>
Graffiti Wipe	30%	70%	70%	80%	<b>63%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	100%	80%	95%	<b>93%</b>
Graffiti Wipe	95%	100%	80%	95%	<b>93%</b>

**Test Results – Graffiti Control**

<b>“Stillwater LedgeStone”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	80%	95%	40%	90%	<b>76%</b>
Graffiti Wipe	40%	80%	50%	70%	<b>60%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	100%	100%	60%	90%	<b>88%</b>
Graffiti Wipe	100%	95%	60%	90%	<b>86%</b>
<b>“Teelin Bay Fieldstone”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	85%	80%	40%	60%	<b>66%</b>
Graffiti Wipe	40%	80%	40%	50%	<b>53%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	100%	90%	95%	<b>94%</b>
Graffiti Wipe	95%	100%	90%	90%	<b>94%</b>
<b>“Winona Weatheredge”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	80%	80%	40%	60%	<b>65%</b>
Graffiti Wipe	60%	80%	40%	40%	<b>55%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	95%	80%	80%	<b>86%</b>
Graffiti Wipe	90%	90%	80%	80%	<b>85%</b>
<b>“Wisconsin River Rock”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	80%	95%	70%	80%	<b>81%</b>
Graffiti Wipe	30%	70%	70%	80%	<b>63%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	100%	80%	95%	<b>93%</b>
Graffiti Wipe	95%	100%	80%	95%	<b>93%</b>
<b>“Wisconsin Weatheredge”</b>					
<b>Untreated Control</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	90%	90%	20%	20%	<b>55%</b>
Graffiti Wipe	40%	60%	20%	20%	<b>35%</b>
<b>Blok-Guard® &amp; Graffiti Control II</b>	<b>Red Paint</b>	<b>Black Marker</b>	<b>Green Marker</b>	<b>Red Marker</b>	<b>% Avg. Removal</b>
Fast Acting Stripper	95%	100%	80%	90%	<b>91%</b>
Graffiti Wipe	90%	95%	80%	80%	<b>86%</b>

**Photographs – Graffiti Control**

**“Shannon Weatheredge”; Before Graffiti Removal**



**Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II**

**Untreated Control**

**“Shannon Weatheredge”; After Graffiti Removal**



**Sure Klean® Fast Acting Stripper**

**Defacer Eraser® Graffiti Wipe**

**Sure Klean® Fast Acting Stripper**

**Defacer Eraser® Graffiti Wipe**

**Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II**

**Untreated Control**



**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. In addition, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II provided a slight to moderate color enhancement to the submitted samples.

**Recommendations – Graffiti Control**

Recommendations for graffiti control treatment for each type of manufactured stone submitted by Share Building Products, Germantown, WI 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 Type	Graffiti Repellency	Graffiti Removal
All Submitted Manufactured Stone	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	Sure Klean® Fast Acting Stripper OR Defacer Eraser® Graffiti Wipe

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.

## **Color and Sheen Enhancement**

This evaluation compares the effectiveness of the evaluated products in providing color and sheen enhancement to the submitted samples.

### **Description of Products Evaluated** – Color and Sheen Enhancement

**Stand Off® Gloss 'N Guard WB** – A highly durable protective coating for tile, pavers, terrazzo and other polished and unpolished masonry. Gloss 'N Guard WB dries to a satin-gloss finish which enhances the natural beauty of treated surfaces. The water-borne acrylic formula complies with all known AIM VOC regulations nationwide.

### **Sample Preparation** – Color and Sheen Enhancement

Samples were cleaned with Enviro Klean® 2010 All Surface Cleaner diluted with 10 parts water and allowed to dry for at least 24 hours prior to treatment.

### **Test Method** – Color and Sheen Enhancement

Stand Off® Gloss 'N Guard WB was applied by brush in accordance with the current PROSOCO, Inc. Product Data Sheet application instructions. After 24 hours, a visual evaluation was made comparing the untreated surface to the treated surface.

### **Test Results** – Color and Sheen Enhancement

<b>“Baileys Harbor Fieldstone”</b>		
<b>Treatment</b>	<b>Color Enhancement</b>	<b>Sheen Enhancement</b>
Stand Off® Gloss 'N Guard WB	2	3
<b>“Cedar Creek Weatheredge”</b>		
<b>Treatment</b>	<b>Color Enhancement</b>	<b>Sheen Enhancement</b>
Stand Off® Gloss 'N Guard WB	1	3
<b>“Chardonnay Limestone”</b>		
<b>Treatment</b>	<b>Color Enhancement</b>	<b>Sheen Enhancement</b>
Stand Off® Gloss 'N Guard WB	1	3
<b>“Cream Limestone”</b>		
<b>Treatment</b>	<b>Color Enhancement</b>	<b>Sheen Enhancement</b>
Stand Off® Gloss 'N Guard WB	1	3
<b>“Donegal LedgeStone”</b>		
<b>Treatment</b>	<b>Color Enhancement</b>	<b>Sheen Enhancement</b>
Stand Off® Gloss 'N Guard WB	2	3
<b>“Earthblend River Rock”</b>		
<b>Treatment</b>	<b>Color Enhancement</b>	<b>Sheen Enhancement</b>
Stand Off® Gloss 'N Guard WB	1	3
<b>“Galena LedgeStone”</b>		
<b>Treatment</b>	<b>Color Enhancement</b>	<b>Sheen Enhancement</b>
Stand Off® Gloss 'N Guard WB	2	3

**Scale:** 0 – No Enhancement; Dull  
 1 – Slight Enhancement  
 2 – Moderate Enhancement  
 3 – Significant Enhancement

**Test Results – Color and Sheen Enhancement**

<b>“Hillside Splitrock”</b>		
<b>Treatment</b>	<b>Color Enhancement</b>	<b>Sheen Enhancement</b>
Stand Off® Gloss ‘N Guard WB	1	3
<b>“Niagara Weatheredge”</b>		
<b>Treatment</b>	<b>Color Enhancement</b>	<b>Sheen Enhancement</b>
Stand Off® Gloss ‘N Guard WB	1	3
<b>“Penn State Limestone”</b>		
<b>Treatment</b>	<b>Color Enhancement</b>	<b>Sheen Enhancement</b>
Stand Off® Gloss ‘N Guard WB	1	3
<b>“Rockfield Limestone”</b>		
<b>Treatment</b>	<b>Color Enhancement</b>	<b>Sheen Enhancement</b>
Stand Off® Gloss ‘N Guard WB	2	3
<b>“Shannon Weatheredge”</b>		
<b>Treatment</b>	<b>Color Enhancement</b>	<b>Sheen Enhancement</b>
Stand Off® Gloss ‘N Guard WB	1	3
<b>“Shoreblend River Rock”</b>		
<b>Treatment</b>	<b>Color Enhancement</b>	<b>Sheen Enhancement</b>
Stand Off® Gloss ‘N Guard WB	2	3
<b>“Splitface Granite”</b>		
<b>Treatment</b>	<b>Color Enhancement</b>	<b>Sheen Enhancement</b>
Stand Off® Gloss ‘N Guard WB	2	3
<b>“Stillwater LedgeStone”</b>		
<b>Treatment</b>	<b>Color Enhancement</b>	<b>Sheen Enhancement</b>
Stand Off® Gloss ‘N Guard WB	1	3
<b>“Teelin Bay Fieldstone”</b>		
<b>Treatment</b>	<b>Color Enhancement</b>	<b>Sheen Enhancement</b>
Stand Off® Gloss ‘N Guard WB	2	3
<b>“Winona Weatheredge”</b>		
<b>Treatment</b>	<b>Color Enhancement</b>	<b>Sheen Enhancement</b>
Stand Off® Gloss ‘N Guard WB	2	3
<b>“Wisconsin River Rock”</b>		
<b>Treatment</b>	<b>Color Enhancement</b>	<b>Sheen Enhancement</b>
Stand Off® Gloss ‘N Guard WB	2	3
<b>“Wisconsin Weatheredge”</b>		
<b>Treatment</b>	<b>Color Enhancement</b>	<b>Sheen Enhancement</b>
Stand Off® Gloss ‘N Guard WB	1	3

**Scale:** 0 – No Enhancement; Dull  
1 – Slight Enhancement  
2 – Moderate Enhancement  
3 – Significant Enhancement

**Photographs – Color and Sheen Enhancement****“Teelin Bay Fieldstone”; Color and Sheen Enhancement Products Applied**

Stand Off® Gloss 'N Guard WB

Untreated Control

**Recommendations – Color and Sheen Enhancement**

Recommendations for color and sheen enhancement for the manufactured stone submitted by Share Building Products, Germantown, WI are provided in the chart below. Recommendations are based on the treatment that proved most effective in providing color and/or sheen enhancement to the submitted samples.

Sample	Color Enhancement	Sheen Enhancement
All Submitted Manufactured Stone	Stand Off® Gloss 'N Guard WB	Stand Off® Gloss 'N Guard WB

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

Christopher A. Moore  
Project Testing Laboratory Technician  
CAM



***PALLET TAG PROGRAM***  
*Laboratory Report*

**Share Building Products**  
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Germantown, WI 53022



*Project No. 0608-08 PTP*

*Prepared For:*  
**PROSOCO**  
SINCE 1939

*Prepared By:*  
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