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    Technical Services TECH Note RILEM Tube Test Procedures

    Product Data literature for all products evaluated

**Submitted Information**

**For:** Mark Wilhems; Concrete Products Group  
**cc:** Brian Koenings

**Subject:** Concrete Products Group  
 Bridgeton, MO

**Date:** July 31, 2008

**Project:** 0806-06 PTP

**Samples Submitted:** 6 types of "Spec-Brik®" concrete brick

Name	Color	Type	Size	Integral Water Repellent
"A1"	TerraCotta/Red/Black	Concrete Brick	15 ½" x 3 ¾" x 3 ½"	Yes
"A2"	Brown/Charcoal	Concrete Brick	15 ½" x 3 ¾" x 3 ½"	Yes
"A3"	Brown/Tan	Concrete Brick	15 ½" x 3 ¾" x 3 ½"	Yes
"A4"	Buff/Tan	Concrete Brick	15 ½" x 3 ¾" x 3 ½"	Yes
"A5"	Brown/Black	Concrete Brick	15 ½" x 3 ¾" x 3 ½"	Yes
"A6"	Brown/Tan	Concrete Brick	15 ½" x 3 ¾" x 3 ½"	Yes

Submitted by: Mark Wilhems, Concrete Products Group

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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**

Six types of "Spec-Brik®" concrete brick, all with large, small, and fine aggregate were submitted for testing to AMT Laboratories by PROSOCO, Inc. to determine the optimal concentration of cleaner for complete removal of mortar and related new construction soiling which also leaves the external surface looking most like the uncleaned surface of the concrete brick. The effectiveness of protective water repellents suitable for concrete brick was also evaluated.

**New Construction Cleaning** – Sure Klean® Vana Trol®, Sure Klean® Concrete Brick Cleaner, and Sure Klean® Custom Masonry Cleaner were evaluated to determine the optimal concentration of cleaner for removal of laboratory applied Type S mortar which also leaves the external surface looking most like the uncleaned surface of the concrete brick.

To simulate new construction soiling all 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 each sample and filled with a wet mixture of Type S 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 staining after 3 days, 7 days, and 14 days of curing.

Color uniformity was evaluated by comparing aggregate exposure and surface pigment alternation/removal of each cleaned surface with the uncleaned surface of the submitted concrete brick.

Aggregate Exposure is the visual examination comparing aggregate exposure of the uncleaned surface of the concrete brick to surfaces cleaned with the selected product(s) at given dilutions.

Surface Pigment Alteration/Removal is the visual examination comparing the surface pigmentation of the uncleaned surface of the concrete brick to surfaces cleaned with the selected product(s) at given dilutions.

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

- |   |  |
|---|--|
| 0 – <b>Worst</b> match to uncleaned surface | 3 – <b>Good</b> match to uncleaned surface |
| 1 – <b>Poor</b> match to uncleaned surface  | 4 – <b>Best</b> match to uncleaned surface |
| 2 – <b>Fair</b> match to uncleaned surface  |  |

**Protective Water Repellents** – Sure Klean® Weather Seal Siloxane PD, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control, and Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II were evaluated for their ability to provide water repellency to the submitted samples.

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

<b>Sample</b>	<b>Product</b>	<b>Dilution</b>
All Submitted "Spec-Brik®" Concrete Brick Samples	Sure Klean® Vana Trol®	1:6, 1:8
	Sure Klean® Concrete Brick Cleaner	1:2, 1:3
	Sure Klean® Custom Masonry Cleaner	1:4, 1:6

**Protective Water Repellent Products Evaluated**

<b>Sample</b>	<b>Product</b>	<b>Dilution</b>
All Submitted "Spec-Brik®" Concrete Brick Samples	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	Concentrate
	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	Concentrate
	Sure Klean® Weather Seal Siloxane PD	Concentrate

## **New Construction Cleaning**

These cleaning trials were conducted to determine the optimal concentration of cleaner to most efficiently remove Type S mortar from the submitted samples while providing the best color uniformity when compared to the uncleaned surface of the submitted concrete brick.

### **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® Concrete Brick Cleaner** – Removes common construction and atmospheric staining from concrete brick 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. Concrete Brick Cleaner adds depth to colors and brightens white matrices and exposed aggregate.

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

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

Type S mortar was prepared in compliance with the manufacturer's instructions, applied to the samples' surfaces and allowed to cure for 3, 7, and 14 days. Mortar removal was accomplished using chemical assistance and a high-pressure water rinse with pressure rinsing equipment. The removal of Type S masonry mortar was visually evaluated after 3, 7, and 14 days of curing. A visual examination was also made to determine the optimal dilution of the tested cleaners that provide the best color uniformity when compared to the uncleaned surface of the submitted concrete brick.

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

Chemical cleaners were evaluated using the following procedure:

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

Sure Klean® Vana Trol® .....	3-5 minutes
Sure Klean® Concrete Brick Cleaner .....	3-5 minutes
Sure Klean® Custom Masonry Cleaner.....	3-5 minutes
4. Reapply the product and moderately agitate with a brush.
5. Pressure rinse thoroughly.\*
6. Allow the sample to dry for at least 18 hours and visually examine.
7. Visually compare the color of the cleaned surfaces of the concrete brick to an uncleaned surface for the best match.

**\*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; Type S Mortar****Cleaning Effectiveness (% Type S Mortar Removal)**

<b>“A1”</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 %	100 %
Sure Klean® Vana Trol®	1:8	100 %	100 %	100 %
Sure Klean® Concrete Brick Cleaner	1:2	100 %	100 %	100 %
Sure Klean® Concrete Brick Cleaner	1:3	100 %	100 %	100 %
Sure Klean® Custom Masonry Cleaner	1:4	100 %	100 %	100 %
Sure Klean® Custom Masonry Cleaner	1:6	100 %	100 %	100 %
<b>“A2”</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 %	100 %
Sure Klean® Vana Trol®	1:8	100 %	100 %	100 %
Sure Klean® Concrete Brick Cleaner	1:2	100 %	100 %	100 %
Sure Klean® Concrete Brick Cleaner	1:3	100 %	100 %	100 %
Sure Klean® Custom Masonry Cleaner	1:4	100 %	100 %	100 %
Sure Klean® Custom Masonry Cleaner	1:6	100 %	100 %	100 %
<b>“A3”</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 %	100 %
Sure Klean® Vana Trol®	1:8	100 %	100 %	100 %
Sure Klean® Concrete Brick Cleaner	1:2	98 %	100 %	100 %
Sure Klean® Concrete Brick Cleaner	1:3	98 %	100 %	100 %
Sure Klean® Custom Masonry Cleaner	1:4	100 %	100 %	100 %
Sure Klean® Custom Masonry Cleaner	1:6	100 %	100 %	100 %
<b>“A4”</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 %	100 %
Sure Klean® Vana Trol®	1:8	100 %	100 %	100 %
Sure Klean® Concrete Brick Cleaner	1:2	100 %	100 %	100 %
Sure Klean® Concrete Brick Cleaner	1:3	100 %	100 %	100 %
Sure Klean® Custom Masonry Cleaner	1:4	100 %	100 %	100 %
Sure Klean® Custom Masonry Cleaner	1:6	100 %	100 %	100 %
<b>“A5”</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 %	100 %
Sure Klean® Vana Trol®	1:8	100 %	100 %	100 %
Sure Klean® Concrete Brick Cleaner	1:2	98 %	100 %	100 %
Sure Klean® Concrete Brick Cleaner	1:3	98 %	100 %	100 %
Sure Klean® Custom Masonry Cleaner	1:4	100 %	100 %	100 %
Sure Klean® Custom Masonry Cleaner	1:6	100 %	100 %	100 %
<b>“A6”</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 %	100 %
Sure Klean® Vana Trol®	1:8	100 %	100 %	100 %
Sure Klean® Concrete Brick Cleaner	1:2	100 %	100 %	100 %
Sure Klean® Concrete Brick Cleaner	1:3	100 %	100 %	100 %
Sure Klean® Custom Masonry Cleaner	1:4	100 %	100 %	100 %
Sure Klean® Custom Masonry Cleaner	1:6	100 %	100 %	100 %

**Test Results – Color Uniformity**

<b>Substrate: Spec-Brik®</b>		<b>Pigment Color: "A1"</b>	
<b>Product</b>	<b>Dilution</b>	<b>Aggregate Exposure</b>	<b>Surface Pigment Alteration/Removal</b>
Sure Klean® Vana Trol®	1:6	2	2
Sure Klean® Vana Trol®	1:8	2	2
Sure Klean® Concrete Brick Cleaner	1:2	4	4
Sure Klean® Concrete Brick Cleaner	1:3	3	3
Sure Klean® Custom Masonry Cleaner	1:4	2	2
Sure Klean® Custom Masonry Cleaner	1:6	2	2
<b>Substrate: Spec-Brik®</b>		<b>Pigment Color: "A2"</b>	
<b>Product</b>	<b>Dilution</b>	<b>Aggregate Exposure</b>	<b>Surface Pigment Alteration/Removal</b>
Sure Klean® Vana Trol®	1:6	2	2
Sure Klean® Vana Trol®	1:8	2	2
Sure Klean® Concrete Brick Cleaner	1:2	3	3
Sure Klean® Concrete Brick Cleaner	1:3	3	3
Sure Klean® Custom Masonry Cleaner	1:4	2	2
Sure Klean® Custom Masonry Cleaner	1:6	2	2
<b>Substrate: Spec-Brik®</b>		<b>Pigment Color: "A3"</b>	
<b>Product</b>	<b>Dilution</b>	<b>Aggregate Exposure</b>	<b>Surface Pigment Alteration/Removal</b>
Sure Klean® Vana Trol®	1:6	1	1
Sure Klean® Vana Trol®	1:8	2	2
Sure Klean® Concrete Brick Cleaner	1:2	2	2
Sure Klean® Concrete Brick Cleaner	1:3	2	2
Sure Klean® Custom Masonry Cleaner	1:4	2	2
Sure Klean® Custom Masonry Cleaner	1:6	2	2
<b>Substrate: Spec-Brik®</b>		<b>Pigment Color: "A4"</b>	
<b>Product</b>	<b>Dilution</b>	<b>Aggregate Exposure</b>	<b>Surface Pigment Alteration/Removal</b>
Sure Klean® Vana Trol®	1:6	2	2
Sure Klean® Vana Trol®	1:8	2	2
Sure Klean® Concrete Brick Cleaner	1:2	4	4
Sure Klean® Concrete Brick Cleaner	1:3	4	4
Sure Klean® Custom Masonry Cleaner	1:4	3	3
Sure Klean® Custom Masonry Cleaner	1:6	3	3
<b>Substrate: Spec-Brik®</b>		<b>Pigment Color: "A5"</b>	
<b>Product</b>	<b>Dilution</b>	<b>Aggregate Exposure</b>	<b>Surface Pigment Alteration/Removal</b>
Sure Klean® Vana Trol®	1:6	2	2
Sure Klean® Vana Trol®	1:8	2	2
Sure Klean® Concrete Brick Cleaner	1:2	2	2
Sure Klean® Concrete Brick Cleaner	1:3	2	2
Sure Klean® Custom Masonry Cleaner	1:4	2	2
Sure Klean® Custom Masonry Cleaner	1:6	2	2

Scale used for reporting results of both categories:

- 0 – **Worst** match to uncleaned surface    3 – **Good** match to uncleaned surface  
 1 – **Poor** match to uncleaned surface    4 – **Best** match to uncleaned surface  
 2 – **Fair** match to uncleaned surface

**Test Results – Color Uniformity**

Substrate: Spec-Brik®	Pigment Color: "A6"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Sure Klean® Vana Trol®	1:6	3	3
Sure Klean® Vana Trol®	1:8	2	2
Sure Klean® Concrete Brick Cleaner	1:2	2	2
Sure Klean® Concrete Brick Cleaner	1:3	2	2
Sure Klean® Custom Masonry Cleaner	1:4	2	2
Sure Klean® Custom Masonry Cleaner	1:6	2	2

Scale used for reporting results of both categories:

- 0 – **Worst** match to uncleaned surface    3 – **Good** match to uncleaned surface  
 1 – **Poor** match to uncleaned surface    4 – **Best** match to uncleaned surface  
 2 – **Fair** match to uncleaned surface



**Photographs – New Construction Cleaning**

**“A6”; 3 Day Cleaning**



Sure Klean® Vana Trol® (1:6)	Sure Klean® Vana Trol® (1:8)	Untreated Control	Sure Klean® Concrete Brick Cleaner (1:2)	Sure Klean® Concrete Brick Cleaner (1:3)	Sure Klean® Custom Masonry Cleaner (1:4)	Sure Klean® Custom Masonry Cleaner (1:6)
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**“A6”; 7 Day Cleaning**



Sure Klean® Vana Trol® (1:6)	Sure Klean® Vana Trol® (1:8)	Untreated Control	Sure Klean® Concrete Brick Cleaner (1:2)	Sure Klean® Concrete Brick Cleaner (1:3)	Sure Klean® Custom Masonry Cleaner (1:4)	Sure Klean® Custom Masonry Cleaner (1:6)
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**“A6”; 14 Day Cleaning**



Sure Klean® Vana Trol® (1:6)	Sure Klean® Vana Trol® (1:8)	Untreated Control	Sure Klean® Concrete Brick Cleaner (1:2)	Sure Klean® Concrete Brick Cleaner (1:3)	Sure Klean® Custom Masonry Cleaner (1:4)	Sure Klean® Custom Masonry Cleaner (1:6)
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**Photographs – Color Uniformity**

**“A3”; Color Uniformity**



Sure Klean® Concrete Brick Cleaner (1:2)	Sure Klean® Concrete Brick Cleaner (1:3)	Untreated Control
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Sure Klean® Custom Masonry Cleaner (1:4)	Sure Klean® Custom Masonry Cleaner (1:6)	Untreated Control
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Sure Klean® Vana Trol® (1:6)	Sure Klean® Vana Trol® (1:8)	Untreated Control
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### **Conclusions – New Construction Cleaning**

Based on the test results, all dilutions of Sure Klean® Vana Trol®, Sure Klean® Concrete Brick Cleaner, and Sure Klean® Custom Masonry Cleaner 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.

All of the cleaners evaluated on the “A3” and “A5” samples removed moderate amounts of surface pigment, exposing a moderate amount of aggregate. It is recommended that the selected cleaners always be used in the lowest possible concentration. They should be rinsed with the lowest pressure of water as practical to minimize removal of the aggregate surface. Excessive pressure and water volume may combine to damage or remove aggregate surfaces. To facilitate easier removal of excess mortar while minimizing any potential surface alterations, clean within 7 days of construction.

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

Recommendations for cleaning for each type of “Spec-Brik®” concrete brick submitted by Concrete Products Group, Bridgeton, MO are provided in the chart below. Recommendations are based on the optimum dilution for complete removal of mortar while providing the best match to the uncleaned surface of the concrete brick.

Sample	New Construction Cleaning (Type S mortar, 14 day cleaning)
“A1”	Sure Klean® Concrete Brick Cleaner (1:2)
“A2” “A4”	Sure Klean® Concrete Brick Cleaner (1:3)
“A3” “A5”	Sure Klean® Vana Trol® (1:8) or Sure Klean® Concrete Brick Cleaner (1:3) or Sure Klean® Custom Masonry Cleaner (1:6)
“A6”	Sure Klean® Vana Trol® (1:6)

The most appropriate cleaner and dilution should be determined on the specific job-site, and will be dependent primarily on the nature and severity of soiling present at that location.

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

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## **Protective Water Repellents**

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

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

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

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

**Sure Klean® Weather Seal Blok-Guard® & Graffiti Control** – A clear, solvent-based silicone elastomer formulated to weatherproof concrete block and other porous masonry materials. Blok-Guard® & Graffiti Control protects masonry surfaces from repeated graffiti attacks without altering the natural appearance. Blok-Guard® & Graffiti Control penetrates and fills pores to prevent water penetration through exterior walls exposed to normal weathering.

**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.

**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.

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

The submitted samples were scored and allowed to dry for 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: RILEM II.4, 60 mph, 20 Minutes**

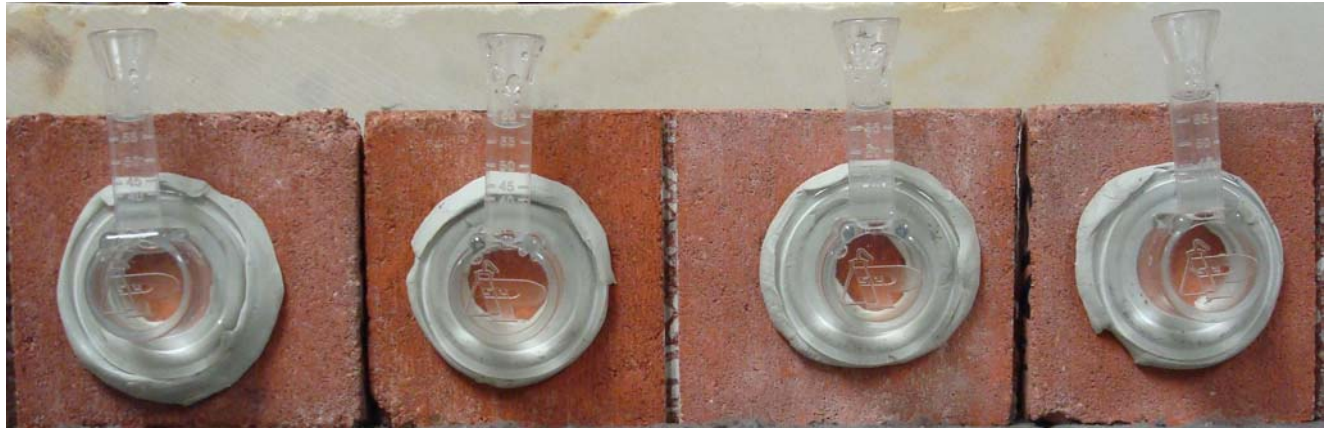
The water absorption tube test simulating wind driven rain conditions was performed. This test simulates 60 mile per hour wind driven rain conditions for a period of 20 minutes. See Technical Services TECH Note RILEM Tube Test Procedures.

**Test Results – Protective Water Repellents****Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes**

<b>“A1”</b>	<b>RESULTS</b>
Untreated Control	57 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	57 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	58 mph
Sure Klean® Weather Seal Siloxane PD	59 mph
<b>“A2”</b>	
Untreated Control	55 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	55 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	57 mph
Sure Klean® Weather Seal Siloxane PD	60 mph
<b>“A3”</b>	
Untreated Control	58 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	59 mph
Sure Klean® Weather Seal Siloxane PD	60 mph
<b>“A4”</b>	
Untreated Control	52 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	55 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	59 mph
Sure Klean® Weather Seal Siloxane PD	59 mph
<b>“A5”</b>	
Untreated Control	56 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	58 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	58 mph
Sure Klean® Weather Seal Siloxane PD	57 mph
<b>“A6”</b>	
Untreated Control	54 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control	60 mph
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	60 mph
Sure Klean® Weather Seal Siloxane PD	60 mph

**Photographs – Protective Water Repellents**

“A1”; RILEM II.4, 60 mph, 20 Minutes



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

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

**Untreated Control**

**Sure Klean®  
Weather Seal  
Siloxane PD**

**Conclusions – Protective Water Repellents**

Based upon laboratory evaluations, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control, and Sure Klean® Weather Seal Siloxane PD provided excellent water repellency to each of the submitted samples. In addition, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control exhibited a moderate color enhancement to the appearance of the brick. Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II provided a slight color enhancement to the submitted brick. Sure Klean® Weather Seal Siloxane PD Concentrate did not alter the appearance of any of the brick in any way.

**Recommendations – Protective Water Repellents**

Recommendations for water repellency for each type of “Spec-Brik®” concrete brick submitted by Concrete Products Group, Bridgeton, MO are provided in the chart below. Recommendations are based on the treatment(s) that proved most effective at providing water repellency on all types submitted.

Sample	Protective Water Repellents
All Submitted “Spec-Brik®” Concrete Brick Samples	*Sure Klean® Weather Seal Blok-Guard® & Graffiti Control  or  Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II  or  Sure Klean® Weather Seal Siloxane PD

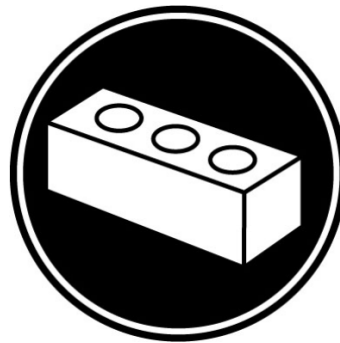
**\*NOTE:** Sure Klean® Weather Seal Blok-Guard® & Graffiti Control is manufactured and marketed in compliance with VOC regulations. This product may not be suitable for sale in states and districts with more restrictive VOC regulations.

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



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*Project No. 0806-06 PTP*

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

*Prepared By:*  
AMT Laboratories  
July 2008