



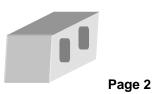
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ATTACHMENTS

Technical Services TECH Note RILEM Test Method No. II.4 Product Data literature for all products evaluated Material Safety Data Sheets for all products evaluated





- FOR: Mike Johnson
 - cc: Jim Lucas Perry Surber John Bourne
- SUBJECT: Bend Industries 2200 South Main St. West Bend, WI 53095 DATE: March 15, 2001 PROJECT: 0101-16 BP

SAMPLES SUBMITTED:

<u>Substrate</u>	<u>Color</u>	<u>Size</u>
(8) Concrete brick - face only	"Decade Red"	12" x 3½" x 3½"
(8) Concrete brick - face only	"Decade Brown"	12" x 3½" x 3½"
(1) Rough Face Block - face only	"Chocolate"	16" x 8" x 1½"
(1) Rough Face Block - face only	"Snow White"	16" x 8" x 1½"
(1) Rough Face Block - face only	"Charcoal"	16" x 8" x 1½"
(1) Rough Face Block - face only	"Sienna"	16" x 8" x 1½"
(1) Rough Face Block - face only	"Vanilla"	16" x 8" x 1½"
(1) Smooth Face Block – face only	"Brick Red"	16" x 8" x 1½"
(1) Rough Concrete Paver - face only	"Red Granite"	7½ " x 4" x ½ "
(1) Rough Concrete Paver - face only	"Gotswold Stone"	7¾ " x 4" x ½ "
(1) Smooth Concrete Paver	"Autumn Blend"	7¾ " x 4" x 2¼"

Submitted by: Jim Lucas





PURPOSE OF TESTING:

Two types of integrally colored concrete brick faces, five types of integrally colored rough concrete blocks, one type of integrally colored smooth concrete block, one type of integrally colored concrete smooth face paver, and two types of integrally colored concrete rough face pavers with large, small and fine aggregate were submitted for testing using PROSOCO's new construction cleaning and water repellent products.

A. Cleaning Concrete Masonry Units: Sure Klean[®] Custom Masonry Cleaner and Sure Klean[®] Concrete Brick Cleaner* at various dilutions were evaluated for removal of laboratory applied mortar.

To simulate new construction soiling, all CMUs are placed on a bench with finished surface facing upward. Hollow cylinders measuring 50 mm in diameter and 75 mm tall are positioned on top of each CMU and filled with a wet mixture of Ashgrove[®] Type S cementitious mortar. The wet, mortar-filled cylinder is allowed to remain in contact with the CMU for 10 minutes before removal.

Soiled CMUs are allowed to dry before test cleaning.

Heavy deposits of mortar are removed with dry scraping after 24 hours. Prepared cleaning solutions are then evaluated for their effectiveness in removing residual Type S mortar staining after:

Bricks	3, 7, 14 days
Pavers	14 days
Blocks	3, 14 days

B. Surface Alteration Testing: Sure Klean[®] Custom Masonry Cleaner and Sure Klean[®] Concrete Brick Cleaner were tested at various dilutions to determine if a cleaning program implemented to remove excess mortar and related new construction soiling would otherwise alter the appearance of cleaned surfaces. Surface Alteration was evaluated visually based upon perceived discoloration or erosion/etching of the masonry unit.

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

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

Matrix Erosion is the visual examination comparing the untreated control surface to surfaces cleaned with selected products at given dilutions looking for any potential erosion/digestion of the cementitious matrix of the CMU.

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

4 - excessive

The following is the scale used for reporting results of all categories: 3 – heavy

- 0 no change
- 1 slight
- 2 moderate

*In the original report, this product was called Sure Klean® Burnished Custom Masonry Cleaner. This report was revised when the product name was changed.





NOTE: When cleaning integrally colored CMU.

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

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

C. Protective Water Repellents: Sure Klean[®] Custom Masonry Sealer was evaluated for its ability to provide water repellency to the submitted concrete blocks and bricks. All samples were evaluated for water repellency by using RILEM method II.4.

D. Color Enhancement: Stand Off[®] Gloss 'N Guard was evaluated on the submitted samples for their ability to enhance the natural color of the concrete pavers in relative comparison to the untreated tile's water-saturated appearance.





CLEANING PRODUCTS EVALUATED

Sample	Product	Dilution
All Submitted Rough and Smooth- Face CMU's	Sure Klean [®] Custom Masonry Cleaner	1:2, 1:4, 1:6
All Submitted Concrete Brick	Sure Klean [®] Concrete Brick Cleaner	1:2, 1:3
All Submitted Rough and Smooth Concrete Pavers	Sure Klean [®] Custom Masonry Cleaner	1:2, 1:4, 1:6

SURFACE ALTERATION PRODUCTS EVALUATED

Sample	Product	Dilution
All Submitted Rough and Smooth- Face CMU's	Sure Klean [®] Custom Masonry Cleaner	1:2, 1:4, 1:6
All Submitted Concrete Brick	Sure Klean [®] Concrete Brick Cleaner	1:2, 1:3
All Submitted Rough and Smooth Concrete Pavers	Sure Klean [®] Custom Masonry Cleaner	1:2, 1:4, 1:6

WATER REPELLENT PRODUCTS EVALUATED

Sample	Product	Dilution
All Submitted CMU's and Concrete Brick	Sure Klean [®] Custom Masonry Sealer	Concentrate

COLOR ENHANCING PRODUCTS EVALUATED

Sample	Product	Dilution	# of Applications
All Submitted Concrete Pavers	Stand Off [®] Gloss 'N Guard	Concentrate	3





PROSOCO, Inc.

SECTION A - CLEANING INTEGRALLY COLORED CMUs

DESCRIPTION OF PRODUCTS EVALUATED

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

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

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 mortar smears, rust, mud, atmospheric dirt and other stains without altering the surface texture. Concrete Brick Cleaner adds depth to colors and brightens white matrices and exposed aggregate. Liquid concentrate for dilution with 1-3 parts water. Apply by brush or low-pressure spray.

TEST METHOD – Cleaning

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

- 1. Pre-wet the surface with water.
- 2. Apply each cleaner at the appropriate dilutions.
- 3. Allow 3-minute exposure time.
- 4. Reapply the products and moderately agitate with a brush.
- 5. Pressure rinse thoroughly.*

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





Test Results - Cleaning

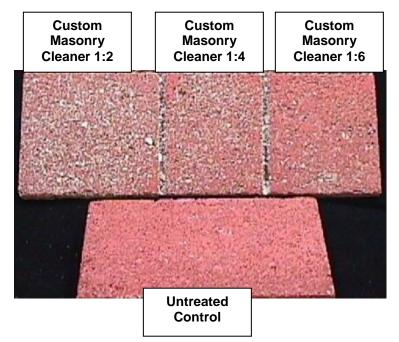
Substrate	Cleaner	Dilution	Cure	Effectiveness
		1:2		100%
		1:4	3 day	100%
	Custom	1:6		100%
All Types of Concrete Block	Masonry Cleaner	1:2		100%
		1:4	14 day	100%
		1:6		100%

Substrate	Cleaner	Dilution	Cure	Effectiveness
	Custom	1:2		100%
All Types of Smooth and Rough Concrete Pavers	Masonry Cleaner	1:4	14 days	100%
	Oleaner	1:6		100%

Substrate	Cleaner	Dilution	Cure	Effectiveness
		1:2	3 day	100%
		1:3	5 day	100%
All Types of Concrete	Concrete	1:2	7 dov	100%
Bricks	Brick Cleaner	1:3	7 day	100%
		1:2	14 dov	100%
		1:3	14 day	100%







"Brick Red" Concrete Block

CONCLUSIONS - Cleaning:

Based on the test data, all of the submitted concrete block samples and paver samples were efficiently cleaned with each dilution of Sure Klean[®] Custom Masonry Cleaner. All of the submitted concrete brick samples were efficiently cleaned with each dilution of Sure Klean[®] Concrete Brick Cleaner. Use higher concentrations and surface agitation to maximize aggregate exposure. Use low concentration and surface agitation to minimize aggregate exposure.

All dilutions of Sure Klean[®] Custom Masonry Cleaner tested affected the concrete blocks and pavers in a similar manner, removing heavy concentrations of pigmented matrix, exposing small and large aggregate, and enhancing the natural appearance of the integrally colored concrete masonry unit.

All dilutions of Sure Klean[®] Concrete Brick Cleaner tested affected the concrete bricks in a similar manner, limiting the removal of surface finish, limiting the exposure of small and large aggregate, and enhancing the natural appearance of the integrally colored concrete masonry unit.

RECOMMENDED PRODUCTS AND DILUTIONS - CLEANING:

Based on these evaluations, all of the dilutions of Sure Klean[®] Custom Masonry Cleaner and Sure Klean[®] Concrete Brick Cleaner tested can be recommended for job site testing on the submitted concrete brick, concrete block, and concrete pavers from Bend Industries, West Bend, WI. They all are effective in removing excess mortar, and they all assist in improving the color and uniformity of these concrete units. 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.

Note: To remove excess mortar while minimizing aggregate exposure and color enhancement, clean within 7 days of completion using Custom Masonry Cleaner diluted with 6 parts fresh water and Concrete Brick Cleaner diluted with 3 parts fresh water.





SECTION B – Surface Alterations:

DESCRIPTION OF PRODUCTS EVALUATED – Surface Alterations:

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

Sure Klean[®] Concrete Brick Cleaner - A general purpose, non-etching acidic cleaner removes rust, mud, oil, atmospheric dirt, mortar smears and other stains without altering the surface texture. Liquid concentrate for dilution with 2-3 parts water. Apply by brush or low-pressure spray.

TEST METHOD – Surface Alteration Testing:

Dilution ratios refer to mixtures of concentrated cleaner : fresh water.

Sure Klean[®] Custom Masonry Cleaner evaluated at dilutions of 1:2, 1:4, and 1:6. Sure Klean[®] Concrete Brick Cleaner evaluated at dilutions of 1:2 and 1:3. The following procedure was used:

- 1. Pre-wet the surface with water.
- 2. Apply each cleaner at the appropriate dilutions.
- 3. Allow 3-minute exposure time.
- 4. Re-apply the products and moderately agitate with a brush.
- 5. Pressure rinse thoroughly.*
- 6. Allow the surface to dry for at least 18 hours and visually examine.

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





Surface Alteration Results:

Substrate: Rough Face Block	Pigment Co	olor: "Chocola	te"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/ Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:2	2	0	2	0
Custom Masonry Cleaner	1:4	1-2	0	1-2	0
Custom Masonry Cleaner	1:6	1	0	1	0
Substrate: Rough Face Block	Pigment Co	olor: "Snow W	/hite"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:2	1	0	1	0
Custom Masonry Cleaner	1:4	1	0	1	0
Custom Masonry Cleaner	1:6	0-1	0	0-1	0
Substrate: Smooth Face Block	Pigment Co	olor: "Charcoa	al"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Product Custom Masonry Cleaner	Dilution 1:2				Staining 0
		Exposure	Alteration/Removal	Erosion	
Custom Masonry Cleaner	1:2	Exposure 2	Alteration/Removal	Erosion 2	0
Custom Masonry Cleaner Custom Masonry Cleaner	1:2 1:4 1:6	Exposure 2 1-2	Alteration/Removal 0 0	Erosion 2 1-2	0
Custom Masonry Cleaner Custom Masonry Cleaner Custom Masonry Cleaner	1:2 1:4 1:6	Exposure 2 1-2 1	Alteration/Removal 0 0	Erosion 2 1-2	0
Custom Masonry Cleaner Custom Masonry Cleaner Custom Masonry Cleaner Substrate: Rough Face Block	1:2 1:4 1:6 Pigment Co	Exposure 2 1-2 1 blor: "Sienna" Aggregate	Alteration/Removal 0 0 0 0 Surface Pigment	Erosion 2 1-2 1 Matrix	0 0 0
Custom Masonry Cleaner Custom Masonry Cleaner Custom Masonry Cleaner Substrate: Rough Face Block Product	1:2 1:4 1:6 Pigment Co Dilution	Exposure 2 1-2 1 blor: "Sienna" Aggregate Exposure	Alteration/Removal 0 0 0 0 Surface Pigment Alteration/Removal	Erosion 2 1-2 1 Matrix Erosion	0 0 0 Staining

Scale used for reporting results of all categories

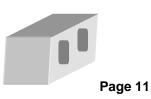
- 0 no change
- 1 slight

2 – moderate

3 – heavy

4 - excessive





TEST RESULTS Continued: Surface Alterations

Substrate: Rough Face Block	Pigment Co	olor: "Vanilla"			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/ Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:2	1	0	1	0
Custom Masonry Cleaner	1:4	1	0	1	0
Custom Masonry Cleaner	1:6	0-1	0	0-1	0
Substrate: Smooth Face Block	Pigment Co	olor: "Brick Re	ed"		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:2	2	0	2	0
Custom Masonry Cleaner	1:4	1-2	0	1-2	0
Custom Masonry Cleaner	1:6	1	0	1	0
Substrate: Rough Face Paver	Pigment Co	olor: "Red Gra	inite"		
Product		Aggregate	Surface Pigment	Martin	
FIOUUCI	Dilution	Exposure	Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	Dilution 1:2				Staining 0
		Exposure	Alteration/Removal	Erosion	-
Custom Masonry Cleaner	1:2	Exposure 1	Alteration/Removal	Erosion 1	0
Custom Masonry Cleaner Custom Masonry Cleaner	1:2 1:4 1:6	Exposure 1 0-1	Alteration/Removal 0 0 0 0	Erosion 1 0-1	0
Custom Masonry Cleaner Custom Masonry Cleaner Custom Masonry Cleaner	1:2 1:4 1:6	Exposure 1 0-1 0	Alteration/Removal 0 0 0 0	Erosion 1 0-1	0
Custom Masonry Cleaner Custom Masonry Cleaner Custom Masonry Cleaner Substrate: Rough Face Paver	1:2 1:4 1:6 Pigment Co	Exposure 1 0-1 0 blor: "Gotswol Aggregate	Alteration/Removal 0 0 0 0 0 d Stone" Surface Pigment	Erosion 1 0-1 0 Matrix	0 0 0
Custom Masonry Cleaner Custom Masonry Cleaner Custom Masonry Cleaner Substrate: Rough Face Paver Product	1:2 1:4 1:6 Pigment Co Dilution	Exposure 1 0-1 0 blor: "Gotswol Aggregate Exposure	Alteration/Removal 0 0 0 0 0 0 d Stone" Surface Pigment Alteration/Removal	Erosion 1 0-1 0 Matrix Erosion	0 0 0 Staining

Scale used for reporting results of all categories

0 – no change

3 – heavy 4 – excessive

1 – slight

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TEST RESULTS Continued: Surface Alterations

Substrate: Smooth Face Paver	Paver Pigment Color: "Autumn Blend"				
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/ Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:2	2	0	2	0
Custom Masonry Cleaner	1:4	1	0	1	0
Custom Masonry Cleaner	1:6	0-1	0	0-1	0
Substrate: Concrete Brick	Pigment Color: "Decade Red"				
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Concrete Brick Cleaner	1:2	0-1	0-1	0	0
Concrete Brick Cleaner	1:3	0-1	0-1	0	0
Substrate: Concrete Brick	Pigment Color: "Decade Brown"				
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Concrete Brick Cleaner	1:2	0-1	0-1	0	0
Concrete Brick Cleaner	1:3	0-1	0-1	0	0

Scale used for reporting results of all categories

0 – no change

3 – heavy 4 – excessive

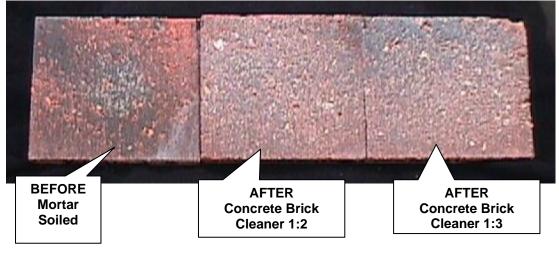
1 – slight 2 – moderate





"Decade Red" Concrete Brick

BEFORE & AFTER 7 Day Cleaning



CONCLUSIONS – Surface Alterations:

Based upon laboratory evaluations none of the PROSOCO, Inc. cleaners evaluated produced any adverse effects on the surfaces of the substrates tested.

All dilutions of Sure Klean[®] Custom Masonry Cleaner tested affected the concrete blocks and pavers in a similar manner, removing heavy concentrations of pigmented matrix, exposing small and large aggregate, and enhancing the natural appearance of the integrally colored concrete masonry unit.

All dilutions of Sure Klean[®] Concrete Brick Cleaner tested affected the concrete bricks in a similar manner, limiting the removal of surface finish, limiting the exposure of small and large aggregate, and enhancing the natural appearance of the integrally colored concrete masonry unit.

RECOMMENDATIONS – Surface Alterations:

Based on evaluations, Sure Klean[®] Custom Masonry Cleaner in all dilutions are recommended for job site testing on all types of the submitted concrete pavers and concrete block. Sure Klean[®] Concrete Brick Cleaner in all dilutions is recommended for job site testing on all types of the submitted concrete brick from Bend Industries, West Bend, WI.





SECTION C - PROTECTIVE WATER REPELLENTS:

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

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

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

DESCRIPTIONS OF PRODUCTS EVALUATED

Protective Water Repellents:

Sure Klean[®] Custom Masonry Sealer - A clear, solvent-based silicone elastomer formulated to weatherproof custom masonry units, cast stone, and concrete block without altering the natural appearance. Custom Masonry Sealer penetrates and fills pores to prevent water penetration through exterior walls exposed to normal weathering as well as long-lasting protection against many types of graffiti.

SAMPLE PREPARATION - Protective Water Repellents:

The submitted blocks were scored, allowed to dry, and to reabsorb atmospheric humidity for 24 hours prior to treatment. Method of treatment is a wet-on-wet application. All treatments were allowed to cure at least 72 hours prior to testing.

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.





TEST RESULTS - Protective Water Repellents and Protective Treatments:

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

	RESULTS				
"Chocolate" Rough Face Block					
Untreated Control	<40 mph				
Custom Masonry Sealer	60 mph				
"Snow White" Rough Face CMU					
Untreated Control	<40 mph				
Custom Masonry Sealer (1 application)	<40 mph				
Custom Masonry Sealer (2 applications)	<40 mph				
"Charcoal" Rough Face CMU					
Untreated Control	<40 mph				
Custom Masonry Sealer	60 mph				
"Sienna" Rough Face CMU					
Untreated Control	<40 mph				
Custom Masonry Sealer	56 mph				
"Vanilla" Rough Face CMU					
Untreated Control	<40 mph				
Custom Masonry Sealer	60 mph				
"Brick Red" Smooth Face CMU					
Untreated Control	<40 mph				
Custom Masonry Sealer	60 mph				
"Decade Red" Concrete Brick					
Untreated Control	<40 mph				
Custom Masonry Sealer	60 mph				
"Decade Brow" Concrete Brick					
Untreated Control	<40 mph				
Custom Masonry Sealer	60 mph				





CONCLUSIONS - Protective Water Repellents:

Based upon laboratory evaluations, Sure Klean[®] Custom Masonry Sealer provided adequate water repellency protection to almost all submitted types of CMUs from Bend Industries, West Bend, WI. Rough face concrete block type "Snow White" was not able to achieve water repellency when treated with one or two applications of Sure Klean[®] Custom Masonry Sealer.

RECOMMENDATIONS - Protective Water Repellents:

Based on evaluations, Sure Klean[®] Custom Masonry Sealer can be recommended for jobsite testing on all submitted CMU types, except rough face concrete block type "Snow White" from Bend Industries, West Bend, WI. No other recommendations can be made for this block type.

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.





SECTION D - COLOR ENHANCEMENT:

The testing described below evaluates the degree of color enhancement that the treatments provide to the tiles.

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

- 1. Ease of application
- 2. Color change
- 3. Removal of staining substances

DESCRIPTIONS OF PRODUCT EVALUATED—Color Enhancement:

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

SAMPLE PREPARATION – Color Enhancement:

The submitted pavers were allowed to dry, and reabsorb atmospheric humidity for 24 hours prior to treatment. The method of application was a saturating application of Stand Off[®] Gloss 'N Guard. Each sample received three coats. All treatments were allowed to cure at least 72 hours prior to testing.

TEST METHODS—Color Enhancement:

Color enhancement is evaluated visually based on the appearance of the treatment applied. This includes color changes and/or darkening.

For purpose of this evaluation, treatments that produce "no enhancement" do not alter the natural appearance of the substrate and are rated with a value of 1. Untreated substrates are rated a value of 0. Treatments that provide the same degree of darkening as water-saturated examples of the substrate are rated with a value of 5.

A value of 2 is estimated to be 25% of the water-saturated degree of darkening. A value of 3 is estimated to be 50% of the water-saturated degree of darkening. A value of 4 is estimated to be 75% of the water-saturated degree of darkening.





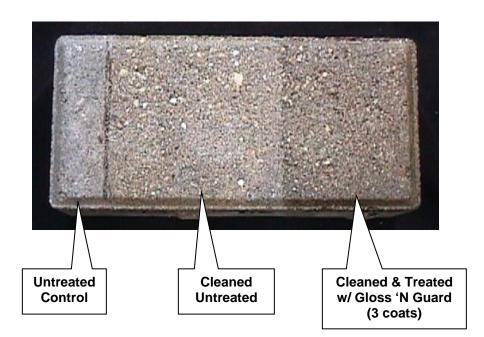
TEST RESULTS: Color Enhancement

"Red Granite" Rough Concrete Paver				
Treatment	Enhancement			
Untreated Control	0			
Gloss 'N Guard (3 coats)	3			
"Gotswold Stone" Rough Concrete Paver				
Treatment	Enhancement			
Untreated Control	0			
Gloss 'N Guard (3 coats)	3			
"Autumn Blend" Smooth Concrete Paver				
Treatment	Enhancement			
Untreated Control	0			
Gloss 'N Guard (3 coats)	4			
le used for reporting results.				

Scale used for reporting results:

0 – Untreated Control	3 – 50% Darkening
1 – No Enhancement	4 – 75% Darkening
2 – 25% Darkening	5 – 100% Darkening

"Autumn Blend"







CONCLUSIONS – Color Enhancement:

Based upon laboratory evaluations, Stand Off[®] Gloss 'N Guard was effective at providing color enhancement on all three submitted types of concrete pavers. Gloss 'N Guard also left a glossy finish.

RECOMMENDATIONS – Color Enhancement:

Based on evaluations, Stand Off[®] Gloss 'N Guard can be recommended for jobsite testing to provide color enhancement on all types of pavers submitted by Bend Industries, West Bend, WI.

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 color enhancing product and procedures for a particular project. See product literature for additional application and product information.

Jumen M. Herr

Carmen M. Hupp Project Testing Coordinator

CMH/csm



Laboratory Report

Block Program Evaluation

Bend Industries West Bend, WI

Project No. 0101-16 BP

Prepared For:

Mike Johnson Bend Industries 2200 S. Main St. West Bend, WI 53095

Prepared By:



PROSOCO, Inc. March 2001