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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: Jerry Liner Cc: Paul Tessier Steve Dean
- SUBJECT: Metromont Materials Asheville, NC Plant
- DATE: November 1, 2000
- **PROJECT:** 0008-04 BP

SAMPLES SUBMITTED: 19 Integrally colored concrete CMUs

<u>Block</u>	<u>Color</u>	Size
(A) Rough face	Natural Grey	4" x 8" x 16"
(B) Rough face	Natural Grey	8" x 8" x 16"
(C) Rough face	Chestnut	4" x 8" x 16"
(D) Rough face	Chestnut	8" x 8" x 16"
(E) Rough face	Light Creme	8" x 8" x 16"
(F) Rough face	Trinity Beige	4" x 8" x 16"
(G) Rough face	Slate Grey	4" x 8" x 16"
(H) Rough face	Pure White	4" x 8" x 16"
(I) Rough face	Pure White	8" x 8" x 16"
(J) Rough face	Cinnamon	8" x 8" x 16"
(K) Rough face	Cinnamon	4" x 8" x 16"
(L) Rough face	Country Stone	4" x 8" x 16"
(M) Rough face	Sandstone	4" x 8" x 16"
(N) Rough face	Sandstone	8" x 8" x 16"
(O) Rough face	Midnight Grey	4" x 8" x 16"
(P) Rough face	Sand Pebble	4" x 8" x 16"
(Q) Rough face	Beige	8" x 8" x 16"
(R) Rough face	Granite	8" x 8" x 16"
(S) Rough face	Peach	8" x 8" x 16"

Submitted by :

Metromont Materials P.O. Box 5656 Asheville, NC Plant





PURPOSE OF TESTING:

Nineteen integrally colored rough face concrete blocks 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[®] New Construction Cleaners 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 Type S or Type N cementitious mortar (both were evaluated). 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 3 days, 7 days, and 14 days of curing and Type N mortar after 7 days, 14 days, and 21 days of curing.

Refer to "*Note: When cleaning integrally colored CMU" in the following section, "Surface Alteration Testing."

B. Surface Alteration Testing - Sure Klean[®] Custom Masonry Cleaner was 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.

<u>Aggregate Exposure</u> 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.

<u>Surface Pigment Alteration/Removal*</u> 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.

<u>Matrix Erosion</u> 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.

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





The following is the scale used for reporting results of all categories: 0 - no change

- 1 1-24% change slight
- 2 25-49% change moderate
- 3 50-74% change heavy
- 4 75-100% change excessive

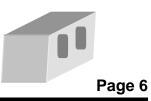
* NOTE: When cleaning integrally colored CMU.

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 (concentrate), Sure Klean[®] Weather Seal Siloxane WB Concentrate, at dilutions (1:9) and (1:14), and Consolideck[®] Saltguard[®] WB (concentrate) were evaluated for their ability to provide water repellency to the submitted samples.





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CLEANING PRODUCTS EVALUATED

BLOCK TYPE	Custom Masonry Cleaner
All Colors of	1:4
Rough Face CMUs	1:6

SURFACE ALTERATION PRODUCTS EVALUATED

BLOCK TYPE	Custom Masonry Cleaner
All Colors of Rough Face	1:4
CMUs	1:6

WATER REPELLENT PRODUCTS EVALUATED

Block Type	Dilution	Product
	Concentrate	Custom Masonry Sealer
All Colors of Rough	Concentrate Saltguard [®] WB	
Face CMUs	1:9	Siloxane WB Concentrate
	1:14	Siloxane WB Concentrate





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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.

TEST METHOD – Cleaning

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

- 1. Prewet the surface with water.
- 2. Apply each cleaner at the appropriate dilutions.
- 3. Allow 3-5 minute exposure time.
- 4. Reapply 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 800 psi with a warm water flow rate of 1.9 gallons per minute.







Test Results - Cleaning

Block Type	Cleaner	Dilution	Cure	Effectiveness					
		1:4	3 day	100%					
		1:6	(Type S)	100%					
		1:4	7 day	100%					
		1:6	(Type S)	100%					
All Colors of	Masonry		1:4	7 day	100%				
Rough Face CMUs			Cleaner		-	-			1:6
	Cleaner	1:4	14 day	100%					
	1:6 1:4	1:6	(Type N)	100%					
		1:4	21 day	100%					
		1:6	(Type N)	100%					

CONCLUSIONS - Cleaning:

Based on the test data, all of the submitted block samples were efficiently cleaned with each dilution of the selected PROSOCO Inc.'s cleaning products. 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 substrate in a similar manner, removing heavy concentrations of pigmented matrix from the rough and smooth block faces, exposing 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 Custom Masonry Cleaner tested can be recommended for job site testing. They all are effective in removing excess mortar, and they all assist in improving the color and uniformity of these concrete blocks. 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.





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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.

TEST METHOD – Surface Alteration Testing:

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

Sure Klean[®] Custom Masonry Cleaner evaluated at dilution 1:4 and 1:6. The following procedure was used:

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

* Pressure rinsing was conducted at approximately 800 psi with a warm water flow rate of 1.9 gallons per minute.





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Surface Alteration Results:

Substrate: A	Pigment (Color: Natura	l Grey		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/ Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:4	3	1	3	0
Custom Masonry Cleaner	1:6	3	1	3	0
Substrate: B	Pigment (Color: Natura	I Grey		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:4	4	1	4	0
Custom Masonry Cleaner	1:6	3	1	3	0
Substrate: C	Pigment Color: Chestnut				
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:4	3	1	3	0
Custom Masonry Cleaner	1:6	2	1	2	0
Substrate: D	Pigment (Color: Chestr	ut		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:4	3	1	3	0
Custom Masonry Cleaner	1:6	3	1	3	0
Substrate: E	Pigment (Color: Light C	rème		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:4	3	1	3	0
Custom Masonry Cleaner	1:6	3	1	3	0

Scale used for reporting results of all categories

0 – no change

1 – 1-24% change – slight

2 – 25-49% change – moderate

3 – 50-74% change – heavy

4 – 75-100% change – excessive





Substrate: F	Pigment C	Color: Trinity	Beige		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:4	3	1	3	0
Custom Masonry Cleaner	1:6	2	1	2	0
Substrate: G	Pigment C	Color: Slate C	Grey		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:4	3	1	3	0
Custom Masonry Cleaner	1:6	3	1	3	0
Substrate: H	Pigment C	Pigment Color: Pure White			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:4	2	1	2	0
Custom Masonry Cleaner	1:6	2	1	2	0
			<u></u>		
Substrate:	Pigment	Color: Pure W			[
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:4	2	0	2	0
Custom Masonry Cleaner	1:6	2	0	2	0
Substrate: J	Pigment C	Color: Cinnan			1
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:4	3	1	3	0
Custom Masonry Cleaner	1:6	3	1	3	0

Scale used for reporting results of all categories

0 – no change

1 – 1-24% change – slight

2 – 25-49% change – moderate

- 3 50-74% change heavy
- 4-75-100% change excessive





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Surface Alteration Results Continued:

Substrate: K	Pigment C	Color: Cinnai	mon		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:4	3	1	3	0
Custom Masonry Cleaner	1:6	2	1	2	0
Substrate: L	Pigment C	Color: Countr	y Stone		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:4	3	1	3	0
Custom Masonry Cleaner	1:6	3	1	3	0
Substrate: M	Pigment C	Color: Sandst	one		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:4	3	1	3	0
Custom Masonry Cleaner	1:6	2	1	2	0
Substrate: N	Pigment C	Color: Sandst	one		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:4	3	1	3	0
Custom Masonry Cleaner	1:6	2	1	2	0
Substrate: O	Pigment C	Color: Midnig	ht Grey		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:4	3	1	3	0
Custom Masonry Cleaner	1:6	3	1	3	0
Substrate: P	Pigment C	color: Sandp	ebble		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:4	3	1	3	0
Custom Masonry Cleaner	1:6	3	1	3	0

Scale used for reporting results of all categories

0 – no change

1-1-24% change - slight

2 - 25-49% change - moderate

3 – 50-74% change – heavy

4 – 75-100% change – excessive





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Surface Alteration Results Continued:

Substrate: Q	Pigment 0	Pigment Color: Beige			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:4	3	1	3	0
Custom Masonry Cleaner	1:6	2	1	2	0
Substrate: R	Pigment (Color: Granite	9		
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:4	3	0	3	0
Custom Masonry Cleaner	1:6	3	0	3	0
		-			
Substrate: S	Pigment (Pigment Color: Peach			
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal	Matrix Erosion	Staining
Custom Masonry Cleaner	1:4	3	1	3	0
Custom Masonry Cleaner	1:6	3	1	3	0

Scale used for reporting results of all categories

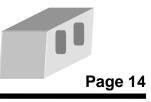
0 – no change

3 – 50-74% change – heavy

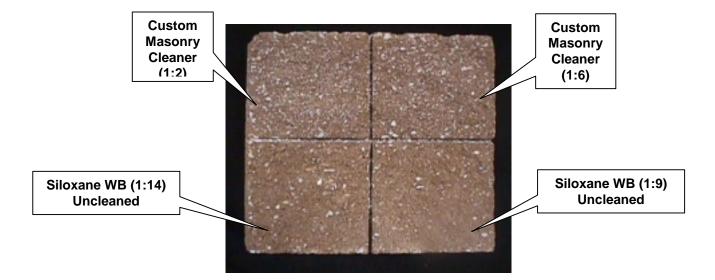
4 – 75-100% change – excessive

1 – 1-24% change – slight 2 – 25-49% change – moderate

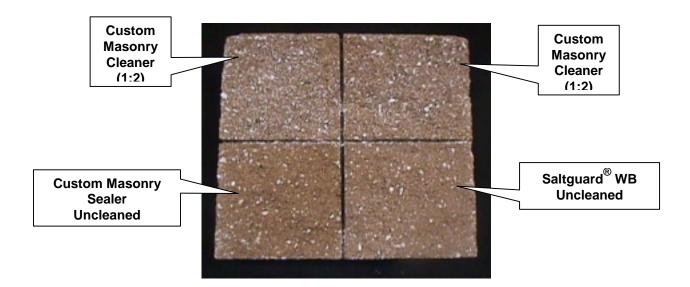








(F) 21 day Type N Mortar Cleaning & Water Repellent Treatments





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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.

Consolideck[®] Saltguard[®] WB - A ready-to-use effective alternative to conventional solvent-based silanes or siloxanes. Saltguard[®] WB penetrates and chemically bonds deep within the concrete or masonry substrate to provide long-lasting protection against moisture intrusion and water-related staining or deterioration.

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

SAMPLE PREPARATION - Protective Water Repellents:

The submitted blocks were scored, allowed to dry, and to reabsorb atmospheric humidity for 24 hours prior to treatment. The treatment method consisted of a wet-on-wet brush application. All treatments were allowed to cure at least 14 days 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:

RESULTS (A) Untreated Control <40 mph **Custom Masonry Sealer** 50 mph Saltguard[®] WB 59 mph Siloxane WB Concentrate (1:9) <45 mph Siloxane WB Concentrate (1:14) 60 mph **(B) Untreated Control** <40 mph **Custom Masonry Sealer** 57 mph Saltguard[®] WB 59 mph Siloxane WB Concentrate (1:9) 55 mph Siloxane WB Concentrate (1:14) 55 mph (C) Untreated Control <40 mph **Custom Masonry Sealer** 58 mph Saltguard[®] WB 59 mph Siloxane WB Concentrate (1:9) 57 mph Siloxane WB Concentrate (1:14) 58 mph (D) Untreated Control <40 mph **Custom Masonry Sealer** 50 mph Saltguard[®] WB 45 mph

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

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RESULTS	
Siloxane WB Concentrate (1:9)	55 mph
Siloxane WB Concentrate (1:14)	60 mph
(E)	
Untreated Control	<40 mph
Custom Masonry Sealer	60 mph
Saltguard [®] WB	<40 mph
Siloxane WB Concentrate (1:9)	57 mph
Siloxane WB Concentrate (1:14)	57 mph
(F)	
Untreated Control	<40 mph
Custom Masonry Sealer	59 mph
Saltguard [®] WB	60 mph
Siloxane WB Concentrate (1:9)	55 mph
Siloxane WB Concentrate (1:14)	57 mph
(G)	
Untreated Control	<40 mph
Custom Masonry Sealer	57 mph
Saltguard [®] WB	57 mph
Siloxane WB Concentrate (1:9)	57 mph
Siloxane WB Concentrate (1:14)	59 mph
(H)	
Untreated Control	<40 mph
Custom Masonry Sealer	53 mph
Saltguard [®] WB	60 mph
Siloxane WB Concentrate (1:9)	60 mph
Siloxane WB Concentrate (1:14)	60 mph
(I)	
Untreated Control	<40 mph
Custom Masonry Sealer	60 mph
Saltguard [®] WB	60 mph
Siloxane WB Concentrate (1:9)	60 mph
Siloxane WB Concentrate (1:14)	58 mph





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RESULTS	
(J)	
Untreated Control	<40 mph
Custom Masonry Sealer	50 mph
Saltguard [®] WB	42 mph
Siloxane WB Concentrate (1:9)	60 mph
Siloxane WB Concentrate (1:14)	55 mph
(K)	
Untreated Control	<40 mph
Custom Masonry Sealer	60 mph
Saltguard [®] WB	60 mph
Siloxane WB Concentrate (1:9)	59 mph
Siloxane WB Concentrate (1:14)	58 mph
(L)	
Untreated Control	<40 mph
Custom Masonry Sealer	56 mph
Saltguard [®] WB	60 mph
Siloxane WB Concentrate (1:9)	57 mph
Siloxane WB Concentrate (1:14)	58 mph
(M)	
Untreated Control	<40 mph
Custom Masonry Sealer	<40 mph
Saltguard [®] WB	60 mph
Siloxane WB Concentrate (1:9)	60 mph
Siloxane WB Concentrate (1:14)	60 mph
(N)	
Untreated Control	<40 mph
Custom Masonry Sealer	<40 mph
Saltguard [®] WB	57 mph
Siloxane WB Concentrate (1:9)	60 mph
Siloxane WB Concentrate (1:14)	56 mph





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RESULTS	
(0)	
Untreated Control	<40 mph
Custom Masonry Sealer	47 mph
Saltguard [®] WB	50 mph
Siloxane WB Concentrate (1:9)	<40 mph
Siloxane WB Concentrate (1:14)	42 mph
(P)	
Untreated Control	<40 mph
Custom Masonry Sealer	58 mph
Saltguard [®] WB	57 mph
Siloxane WB Concentrate (1:9)	57 mph
Siloxane WB Concentrate (1:14)	56 mph
(Q)	
Untreated Control	<40 mph
Custom Masonry Sealer	58 mph
Saltguard [®] WB	57 mph
Siloxane WB Concentrate (1:9)	60 mph
Siloxane WB Concentrate (1:14)	58 mph
(R)	
Untreated Control	<40 mph
Custom Masonry Sealer	59 mph
Saltguard [®] WB	60 mph
Siloxane WB Concentrate (1:9)	56 mph
Siloxane WB Concentrate (1:14)	60 mph
(S)	
Untreated Control	<40 mph
Custom Masonry Sealer	60 mph
Saltguard [®] WB	50 mph
Siloxane WB Concentrate (1:9)	53 mph
Siloxane WB Concentrate (1:14)	57 mph





CONCLUSIONS - Protective Water Repellents:

Based upon laboratory evaluations, all of the submitted CMU exhibited above average water repellency when treated with at least one of the water repellent treatments. Sure Klean[®] Custom Masonry Sealer enhanced the substrates natural appearance, no other water repellents noticeably altered the appearance of the CMUs.

RECOMMENDATIONS - Protective Water Repellents:

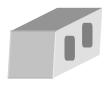
Based on evaluations, Sure Klean[®] Custom Masonry Sealer, Consolideck[®] Saltguard[®] WB, or Sure Klean[®] Weather Seal Siloxane WB Concentrate at both dilutions (1:9 and 1:14) can be recommended for jobsite testing on CMU block types (B), (C), (D), (F), (G), (H), (I), (K), (L), (P), (Q), (R), and (S). Sure Klean[®] Custom Masonry Sealer, Consolideck[®] Saltguard[®] WB, and Sure Klean[®] Weather Seal Siloxane WB Concentrate at dilution 1:14 only is recommended for jobsite testing on CMU type (A). For CMU block types (D), (E), and (J), only Sure Klean[®] Custom Masonry Sealer can be recommended for jobsite testing. For block types (M) and (N), Consolideck[®] Saltguard[®] WB and both dilutions (1:9 and 1:14) of Sure Klean[®] Weather Seal Siloxane WB Concentrate are recommended for jobsite testing. Consolideck[®] Saltguard[®] WB is the only water repellent tested that can be recommended for jobsite testing.

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.

bemen M. H

Carmen M. Hupp Technical Services Analyst

CMH/csm



Laboratory Report

Block Program Evaluation

Metromont Materials Asheville, NC Plant

Project No. 0008-04 BP

Prepared For:

Jerry Liner

Metromont Materials P.O. Box 26036 Charlotte, NC 28221

Prepared By:



PROSOCO, Inc. November 2000