



Laboratory Report

Block Program Evaluation

**Calstone Company
Sunnyvale, CA**

Project No. 0008-01 BP

Prepared For:

Richard Mirowski

Prepared By:



**PROSOCO, Inc.
October 2000**

SAMPLES SUBMITTED:

<u>Block</u>	<u>Color</u>	<u>Size</u>
(A) #100 Rough Face CMU	Gray	8" x 8" x 16"
(B) #112 Rough Face CMU	Buff	8" x 8" x 16"
(C) #200 Rough Face CMU w/ black aggregate	Smoke	8" x 8" x 16"
(D) #5500 Rough Face CMU w/ Dry Block	Gray	8" x 8" x 16"
(E) #500 Rough Face CMU w/ black & white aggregate	Smoke	8" x 8" x 16"
(F) #5500 Rough Face CMU w/ Dry Block	Light Gray	8" x 8" x 16"
(G) #336 Rough Face CMU	Reddish Brown	8" x 8" x 16"

Submitted by: Richard Mirowski

Test Results - Cleaning

Block Type	Cleaner	Dilution		Effectiveness
Rough Face CMU's	Sure Klean [®] Custom Masonry Cleaner	1:2	14 Day	100%
		1:4	14 Day	100%
		1:6	14 Day	99%

CONCLUSIONS - Cleaning:

Based on the test data, several conclusions can be made about the use of PROSOCO, Inc.'s products on the submitted integrally colored concrete blocks. In terms of cleaners, all dilutions of Sure Klean® Custom Masonry Cleaner tested affected the substrate in a similar manner, removing excess mortar and heavy concentrations of pigmented matrix from the block face, exposing small and large aggregate, and enhancing the natural appearance of the integrally colored concrete masonry unit. Sure Klean® Custom Masonry Cleaner in dilutions 1:2 and 1:4 provided the best removal of mortar smears 14 days old from the block face.

RECOMMENDED PRODUCTS AND DILUTIONS - CLEANING:

Based on these evaluations, Sure Klean® Custom Masonry Cleaner in 1:2 and 1:4 dilutions with a 3-minute dwell time can be recommended for job site testing. They are all effective in removing excess mortar, and they assist in improving the color and uniformity of the concrete blocks. The most appropriate cleaner and dilution should be determined on the specific job site, and will depend on the nature and severity of soiling present at that location.

Note: If it is desirable to remove excess mortar while minimizing aggregate exposure and color enhancement of the textured split faced CMU's, clean within 3-7 days of completion using Custom Masonry Cleaner diluted with 6 parts fresh water.

TEST RESULTS - Adverse Effects Evaluation:

Block Type	Cleaner	Adverse Effects
Rough Face CMUs	Sure Klean® Custom Masonry Cleaner (1:2)	Moderate exposure of aggregate/ Darkening of matrix
	Sure Klean® Custom Masonry Cleaner (1:4)	Slight exposure of aggregate/ Darkening of matrix
	Sure Klean® Custom Masonry Cleaner (1:6)	Very slight exposure of aggregate/ Darkening of matrix

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

(A) #100 R/F Gray	
Untreated Control	<40mph
Custom Masonry Sealer	60 mph
Siloxane WB (1:9)	57 mph
Siloxane WB (1:14)	60 mph
Siloxane PD	60 mph

(B)#112 R/F Buff	
Untreated Control	<40mph
Custom Masonry Sealer	60 mph
Siloxane WB (1:9)	60 mph
Siloxane WB (1:14)	60 mph
Siloxane PD	60 mph
(C) #200 R/F Gray	
Untreated Control	<40mph
Custom Masonry Sealer	60 mph
Siloxane WB (1:9)	60 mph
Siloxane WB (1:14)	60 mph
Siloxane PD	50 mph
(D) #5500 R/F Smoke w/ Dry Block	
Untreated Control	<40mph
Custom Masonry Sealer	60 mph
Siloxane WB (1:9)	60 mph
Siloxane WB (1:14)	60 mph
Siloxane PD	60 mph
(E) #500 R/F Smoke	
Untreated Control	<40mph
Custom Masonry Sealer	60 mph
Siloxane WB (1:9)	60 mph
Siloxane WB (1:14)	60 mph
Siloxane PD	57 mph
(F)#5500 R/F Gray w/ Dry Block	
Untreated Control	<40mph
Custom Masonry Sealer	60 mph
Siloxane WB (1:9)	60 mph
Siloxane WB (1:14)	60 mph
Siloxane PD	55 mph
(G) #336 R/F Reddish Brown	
Untreated Control	<40mph
Custom Masonry Sealer	60 mph
Siloxane WB (1:9)	60 mph
Siloxane WB (1:14)	60 mph
Siloxane PD	60 mph

CONCLUSIONS - Protective Water Repellents:

Based upon laboratory evaluations, all of the submitted CMU exhibited above average water repellency when treated with Sure Klean® Custom Masonry Sealer, Sure Klean® Weather Seal Siloxane WB Concentrate (diluted with fresh water 1:9; 1:14) or Sure Klean® Weather Seal Siloxane PD. Sure Klean® Custom Masonry Sealer enhanced the natural appearance of the stone. Sure Klean® Weather Seal Siloxane WB Concentrate and Sure Klean® Weather Seal Siloxane PD had no change in visual appearance.

RECOMMENDATIONS - Protective Water Repellents:

Based on evaluations, both Sure Klean® Custom Masonry Sealer, Siloxane WB Concentrate (1:9 and 1:14), and Sure Klean® Weather Seal Siloxane PD can be recommended for job site testing to provide water repellency. For water repellent protection and to simplify removal of applied graffiti, Custom Masonry Sealer can be recommended for job site evaluation.

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.

Complete Evaluation Report Available Upon Request