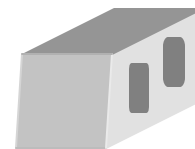




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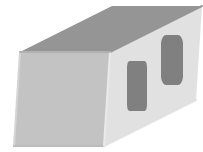
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ATTACHMENTS

Technical Services TECH Note RILEM Tube Test Procedures
Product Data literature for all products evaluated



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FOR: Perry Lee
cc: Jim Lucas
Brian Koenings
John Bourne

SUBJECT: County Materials Corporation
3019 W. Prospect Ave.
Appleton, WI 54914

DATE: June 9, 2003

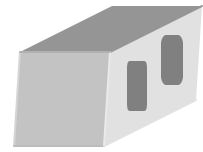
PROJECT: 0304-14

SAMPLES SUBMITTED: Eighteen types of split-face CMU's all with Rheomix[®] Rheopel[™]

| <u>Block</u> | <u>Color</u> | <u>Size</u> |
|----------------|---------------------------|-------------------|
| Split-face CMU | "Premium Cream" | 15.6" x 7.5" x 1" |
| Split-face CMU | "Premium White" | |
| Split-face CMU | "Premium Bisque" | |
| Split-face CMU | "Premium Sienna Cream" | |
| Split-face CMU | "Premium Salt and Pepper" | |
| Split-face CMU | "Natural Gray" | |
| Split-face CMU | "Brown" | |
| Split-face CMU | "Dark Chocolate" | |
| Split-face CMU | "Red Clay" | |
| Split-face CMU | "Adobe" | |
| Split-face CMU | "Buff" | |
| Split-face CMU | "Charcoal" | |
| Split-face CMU | "Tumbleweed" | |
| Split-face CMU | "Espresso" | |
| Split-face CMU | "Coral Brown" | |
| Split-face CMU | "Mocha" | |
| Split-face CMU | "Autumn Red" | |
| Split-face CMU | "Crimson" | |



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One type of "Holland paver" with MB KolorKure

| | | |
|----------------|----------------|----------------|
| Holland Pavers | "Royal Sunset" | 8" x 4" x 2.5" |
|----------------|----------------|----------------|

Two types of "Stockholm" pavers with MB KolorKure

| | | |
|----------------|---------------|----------------|
| Holland Pavers | "Iron River" | 8" x 4" x 2.5" |
| Holland Pavers | "Desert Sand" | |

Three types of "Heritage concrete bricks" with Rheopel

| | | |
|-------------------------|-------------------------|------------------|
| Heritage Concrete Brick | "Coffee Blend Medium" | 9.75" x 3" x .5" |
| Heritage Concrete Brick | "Cardinal Blend Medium" | |
| Heritage Concrete Brick | "Ash Blend Medium" | |

Submitted by: Perry Lee
County Materials Corporation
Appleton, WI



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PURPOSE OF TESTING:

Eighteen integrally colored split-face concrete blocks, one integrally colored "Holland paver", two integrally colored "Stockholm pavers", three integrally colored "Heritage concrete bricks"; all 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[®] Burnished Custom Masonry Cleaner were evaluated for removal of laboratory applied mortar.

To simulate new construction soiling, all concrete masonry units (CMU's) 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 Ash Grove[®] Type S mortar. The wet, mortar-filled cylinder is allowed to remain in contact with the CMU for 10 minutes before removal.

Heavy deposits of mortar are removed with dry scraping after 24 hours. Prepared cleaning solutions are then evaluated for their effectiveness in removing residual Ash Grove[®] Type S mortar staining after 3 days, 7 days, and 14 days of curing.*

B. Color Uniformity Testing* - Sure Klean[®] Custom Masonry Cleaner and Sure Klean[®] Burnished Custom Masonry Cleaner were evaluated at various dilutions to determine the optimal concentration of cleaner that leaves the external surface looking most like the natural through-body color of the CMU. Color uniformity was evaluated by comparing aggregate exposure and surface pigment alternation/removal of each cleaned surface compared to the natural through-body color of the CMU.

Aggregate Exposure is the visual examination comparing aggregate exposure of the interior, through-body section of CMU to surfaces cleaned with selected product(s) at given dilutions.

Surface Pigment Alteration/Removal* is the visual examination comparing the pigmentation of the interior, through-body section of the CMU to surfaces cleaned with selected product(s) at given dilutions.

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

- | | |
|--|---------------------------------------|
| 0 – Worst match to through-body | 3 – Good match to through-body |
| 1 – Poor match to through-body | 4 – Best match to through-body |
| 2 – Fair match to through-body | |

*** NOTE: When cleaning integrally colored CMU.**

Integrally colored concrete masonry units (CMU's) 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.

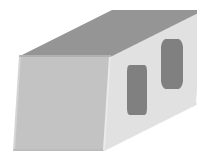
In addition to removing excess mortar and construction related soiling, the goal of any cleaning operation undertaken on integrally colored CMU should include removal of unnaturally high concentrations of surface pigment. By revealing the natural through-body color on the integrally colored unit, the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

C. Protective Water Repellents - Sure Klean[®] Weather Seal Siloxane WB Concentrate, Sure Klean[®] Weather Seal Natural Stone Treatment WB, Sure Klean[®] Custom Masonry Sealer, Consolideck[®] Saltguard[®] WB, and Sure Klean[®] Paver Enhancer were evaluated for their ability to provide water repellency to the submitted samples.

D. Graffiti Control – Sure Klean[®] Weather Seal[®] Blok-Guard & Graffiti Control was evaluated for its ability to control graffiti on the submitted block and brick samples. Sure Klean[®] Fast Acting Stripper, Defacer Eraser[®] Graffiti Release and Defacer Eraser[®] Graffiti Wipe were evaluated for their ability to remove graffiti from the submitted samples.



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E. Stain Repellency – Stand Off[®] Stone, Tile & Masonry Protector, Stand Off[®] SLX100 Water & Oil Repellent, and Stand Off[®] Impregnator were evaluated for their ability to repel stains from the submitted paver samples.

F. Color Enhancement – Sure Klean[®] Paver Enhancer and Stand Off[®] Gloss 'N Guard were evaluated for their ability to enhance the natural color of the submitted paver samples.

PRODUCTS EVALUATED FOR CLEANING AND COLOR UNIFORMITY

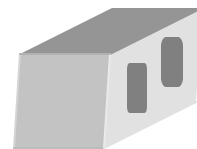
| Block Type | Product | Dilution |
|--|--|---------------|
| All Submitted Split-face CMU's | Sure Klean [®] Custom Masonry Cleaner | 1:2, 1:4, 1:6 |
| | Sure Klean [®] Burnished Custom Masonry Cleaner | 1:2, 1:3 |
| All Submitted "Heritage Concrete Bricks", "Holland Pavers", and "Stockholm Pavers" | Sure Klean [®] Custom Masonry Cleaner | 1:6 |
| | Sure Klean [®] Burnished Custom Masonry Cleaner | 1:3 |

WATER REPELLENT PRODUCTS EVALUATED

| Block Type | Product | Dilution |
|---|---|-------------|
| All Submitted Split-face CMU's and "Heritage Concrete Bricks" | Sure Klean [®] Weather Seal Siloxane WB Concentrate | 1:9, 1:14 |
| | Sure Klean [®] Weather Seal Natural Stone Treatment WB | Concentrate |
| | Sure Klean [®] Custom Masonry Sealer | Concentrate |
| All Submitted "Holland Pavers" and "Stockholm Pavers" | Consolideck [®] Saltguard [®] WB | Concentrate |
| | Sure Klean [®] Paver Enhancer | Concentrate |



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GRAFFITI CONTROL PRODUCTS EVALUATED

| Block Type | Product |
|--------------------------------|---|
| All submitted CMU's and Bricks | Sure Klean [®] Weather Seal Blok-Guard [®] & Graffiti Control |

GRAFFITI REMOVAL PRODUCTS EVALUATED

| Block Type | Product |
|--------------------------------|--|
| All submitted CMU's and Bricks | Sure Klean [®] Fast Acting Stripper |
| | Defacer Eraser [®] Graffiti Wipe |
| | Defacer Eraser [®] Graffiti Release |

STAIN RESISTANCE PRODUCTS EVALUATED

| Block Type | Product |
|---|--|
| All submitted "Holland Pavers" and "Stockholm Pavers" | Stand Off [®] Stone, Tile & Masonry Protector |
| | Stand Off [®] SLX100 Water & Oil Repellent |
| | Stand Off [®] Impregnator |

COLOR ENHANCEMENT PRODUCTS EVALUATED

| Block Type | Product |
|---|--|
| All submitted "Holland Pavers" and "Stockholm Pavers" | Sure Klean [®] Paver Enhancer |
| | Stand Off [®] Gloss 'N Guard |



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SECTION A – CLEANING INTEGRALLY COLORED CMU's

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® Burnished Custom Masonry Cleaner - A general-purpose, non-etching acidic cleaner that removes rust, mud, oil, atmospheric dirt, mortar smears and other stains without altering the surface texture. Burnished Custom Masonry Cleaner adds depth to colors, brightens white matrices and exposed aggregate. Liquid concentrate for dilution with 2-3 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. Prewet the surface with water.
2. Apply each cleaner at the appropriate dilutions.
3. Allow appropriate dwell time for each cleaner:
 Custom Masonry Cleaner 3 minutes
 Burnished Custom Masonry Cleaner 3-5 minutes
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 1300 psi with a warm water flow rate of 1.9 gallons per minute.



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TEST RESULTS - Cleaning

% removal

| “Premium Cream” Split-face CMU | | | | |
|--|----------|-------|-------|--------|
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:2 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:4 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:6 | 100% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:2 | 100% | 100% | 90% |
| Burnished Custom Masonry Cleaner | 1:3 | 100% | 100% | 90% |
| “Premium White” Split-face CMU | | | | |
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:2 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:4 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:6 | 100% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:2 | 90% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:3 | 90% | 100% | 100% |
| “Premium Bisque” Split-face CMU | | | | |
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:2 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:4 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:6 | 100% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:2 | 90% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:3 | 90% | 100% | 100% |
| “Premium Sienna Cream” Split-face CMU | | | | |
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:2 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:4 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:6 | 100% | 100% | 90% |
| Burnished Custom Masonry Cleaner | 1:2 | 90% | 100% | 95% |
| Burnished Custom Masonry Cleaner | 1:3 | 90% | 100% | 95% |
| “Premium Salt + Pepper” Split-face CMU | | | | |
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:2 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:4 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:6 | 100% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:2 | 90% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:3 | 95% | 100% | 100% |



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TEST RESULTS – Cleaning (continued)

% removal

| “Natural Gray” Split-face CMU | | | | |
|----------------------------------|----------|-------|-------|--------|
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:2 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:4 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:6 | 100% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:2 | 100% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:3 | 100% | 100% | 100% |
| “Brown” Split-face CMU | | | | |
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:2 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:4 | 100% | 95% | 100% |
| Custom Masonry Cleaner | 1:6 | 95% | 95% | 100% |
| Burnished Custom Masonry Cleaner | 1:2 | 95% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:3 | 95% | 100% | 100% |
| “Dark Chocolate” Split-face CMU | | | | |
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:2 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:4 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:6 | 95% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:2 | 100% | 100% | 95% |
| Burnished Custom Masonry Cleaner | 1:3 | 100% | 100% | 95% |
| “Red Clay” Split-face CMU | | | | |
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:2 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:4 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:6 | 100% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:2 | 95% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:3 | 95% | 100% | 100% |
| “Adobe” Split-face CMU | | | | |
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:2 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:4 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:6 | 100% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:2 | 100% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:3 | 95% | 100% | 100% |



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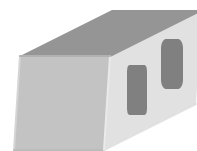
TEST RESULTS – Cleaning (continued)

% removal

| “Buff” Split-face CMU | | | | |
|----------------------------------|----------|-------|-------|--------|
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:2 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:4 | 100% | 95% | 100% |
| Custom Masonry Cleaner | 1:6 | 100% | 100% | 95% |
| Burnished Custom Masonry Cleaner | 1:2 | 90% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:3 | 90% | 95% | 95% |
| “Charcoal” Split-face CMU | | | | |
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:2 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:4 | 100% | 95% | 100% |
| Custom Masonry Cleaner | 1:6 | 90% | 100% | 95% |
| Burnished Custom Masonry Cleaner | 1:2 | 90% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:3 | 90% | 95% | 95% |
| “Tumbleweed” Split-face CMU | | | | |
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:2 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:4 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:6 | 100% | 100% | 95% |
| Burnished Custom Masonry Cleaner | 1:2 | 100% | 100% | 95% |
| Burnished Custom Masonry Cleaner | 1:3 | 100% | 100% | 95% |
| “Espresso” Split-face CMU | | | | |
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:2 | 100% | 95% | 100% |
| Custom Masonry Cleaner | 1:4 | 90% | 95% | 100% |
| Custom Masonry Cleaner | 1:6 | 100% | 95% | 90% |
| Burnished Custom Masonry Cleaner | 1:2 | 90% | 100% | 90% |
| Burnished Custom Masonry Cleaner | 1:3 | 90% | 95% | 90% |
| “Coral Brown” Split-face CMU | | | | |
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:2 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:4 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:6 | 100% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:2 | 80% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:3 | 80% | 95% | 100% |



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TEST RESULTS – Cleaning (continued)

% removal

| “Mocha” Split-face CMU | | | | |
|----------------------------------|----------|-------|-------|--------|
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:2 | 100% | 100% | 95% |
| Custom Masonry Cleaner | 1:4 | 100% | 100% | 95% |
| Custom Masonry Cleaner | 1:6 | 100% | 95% | 100% |
| Burnished Custom Masonry Cleaner | 1:2 | 95% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:3 | 90% | 95% | 100% |
| “Autumn Red” Split-face CMU | | | | |
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:2 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:4 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:6 | 95% | 95% | 100% |
| Burnished Custom Masonry Cleaner | 1:2 | 100% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:3 | 95% | 90% | 100% |
| “Crimson” Split-face CMU | | | | |
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:2 | 100% | 100% | 100% |
| Custom Masonry Cleaner | 1:4 | 100% | 90% | 100% |
| Custom Masonry Cleaner | 1:6 | 100% | 95% | 100% |
| Burnished Custom Masonry Cleaner | 1:2 | 85% | 90% | 90% |
| Burnished Custom Masonry Cleaner | 1:3 | 85% | 90% | 90% |
| “Royal Sunset” “Holland Paver” | | | | |
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:6 | 100% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:3 | 100% | 100% | 100% |
| “Iron River” “Stockholm Paver” | | | | |
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:6 | 100% | 100% | 100% |
| Burnished Custom Masonry Cleaner | 1:3 | 100% | 100% | 100% |
| “Desert Sand” “Stockholm Paver” | | | | |
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:6 | 90% | 90% | 95% |
| Burnished Custom Masonry Cleaner | 1:3 | 100% | 100% | 95% |



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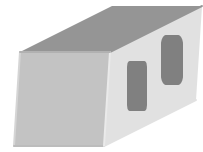
TEST RESULTS – Cleaning (continued)

% removal

| “Coffee Blend Medium” “Heritage Concrete Brick” | | | | |
|---|----------|-------|-------|--------|
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:6 | 95% | 90% | 100% |
| Burnished Custom Masonry Cleaner | 1:3 | 100% | 100% | 90% |
| “Cardinal Blend” “Heritage Concrete Brick” | | | | |
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:6 | 98% | 95% | 95% |
| Burnished Custom Masonry Cleaner | 1:3 | 100% | 95% | 80% |
| “Ash Blend Medium” “Heritage Concrete Brick” | | | | |
| Product | Dilution | 3 day | 7 day | 14 day |
| Custom Masonry Cleaner | 1:6 | 100% | 98% | 100% |
| Burnished Custom Masonry Cleaner | 1:3 | 100% | 100% | 85% |



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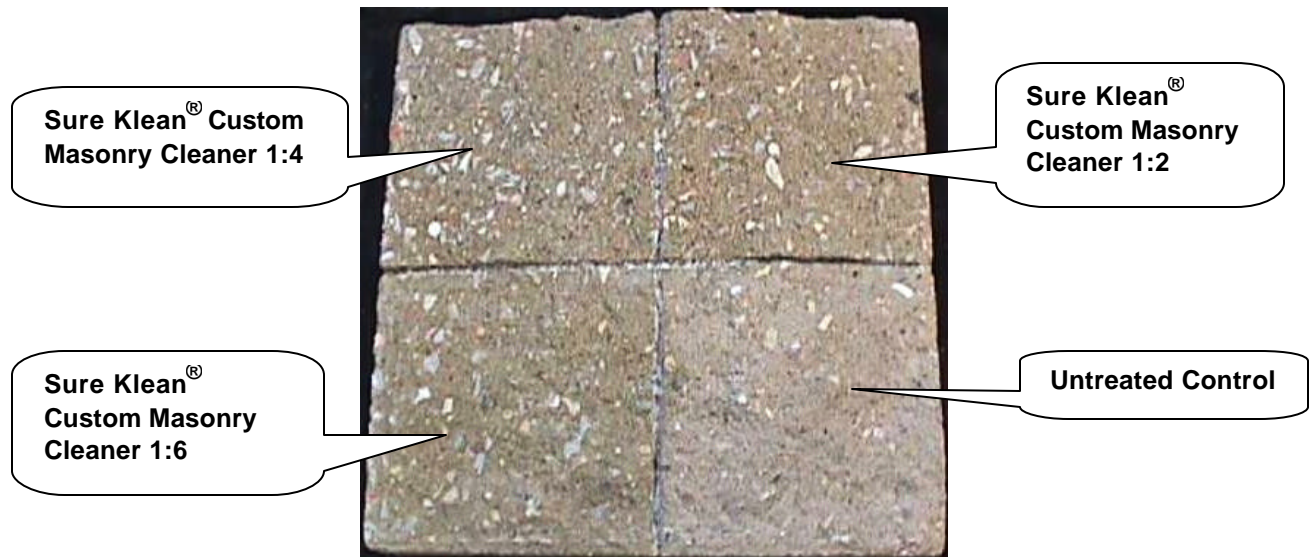


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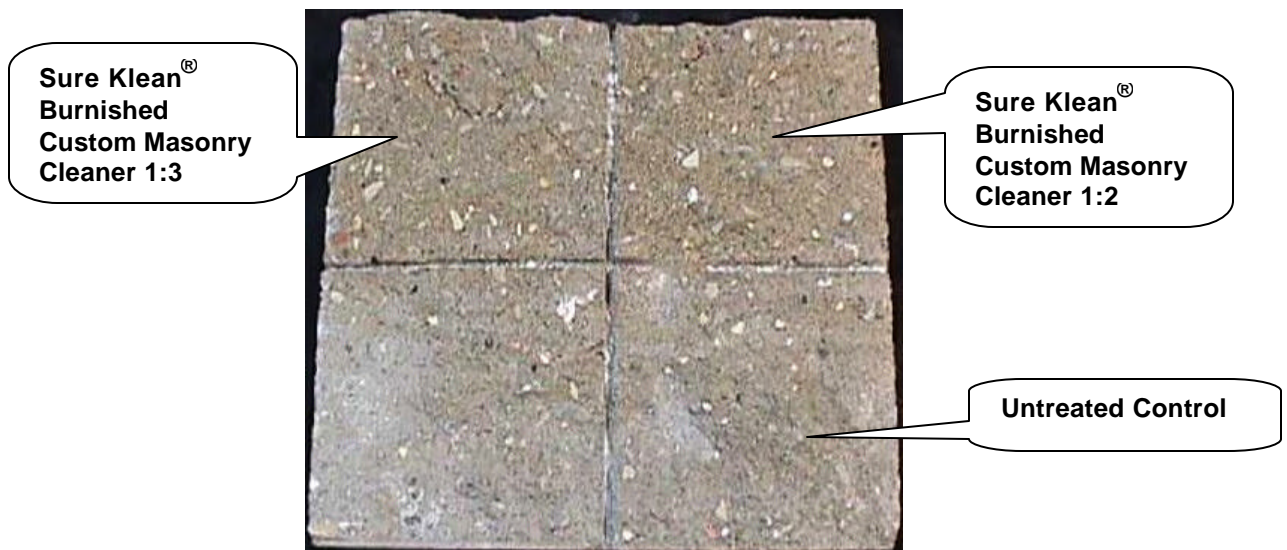
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PHOTOGRAPHS- Cleaning

"Brown" 3 Day Cleaning

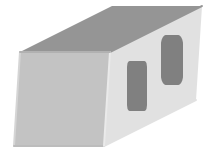


"Brown" 3 Day Cleaning





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PHOTOGRAPHS- Continued

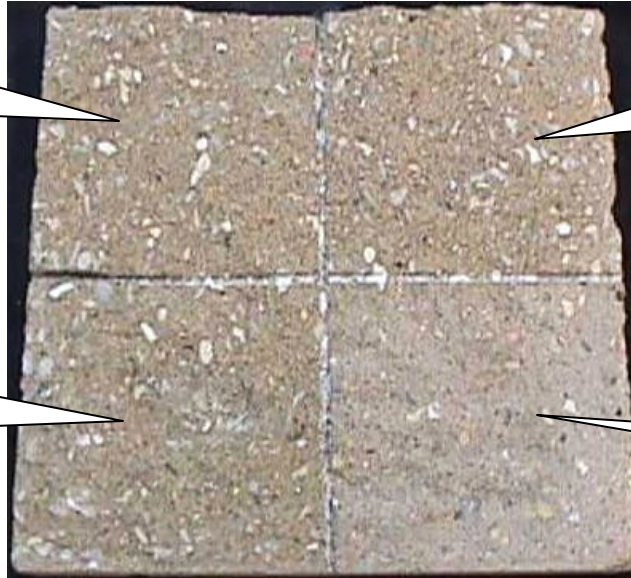
"Brown" 7 Day Cleaning

Sure Klean[®]
Custom Masonry
Cleaner 1:4

Sure Klean[®]
Custom
Masonry
Cleaner 1:2

Sure Klean[®]
Custom Masonry
Cleaner 1:6

Untreated Control

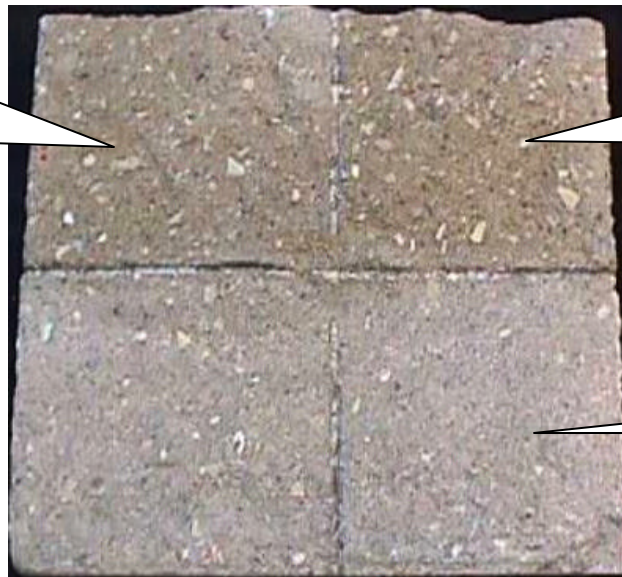


"Brown" 7 Day Cleaning

Sure Klean[®]
Burnished
Custom Masonry
Cleaner 1:3

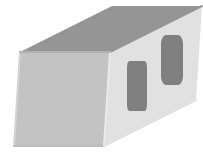
Sure Klean[®]
Burnished
Custom Masonry
Cleaner 1:2

Untreated Control





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PHOTOGRAPHS- Continued

"Brown" 14 Day Cleaning

**Sure Klean[®] Custom
Masonry Cleaner 1:4**

**Sure Klean[®] Custom
Masonry Cleaner 1:2**

**Sure Klean[®]
Custom Masonry
Cleaner 1:6**

Untreated Control

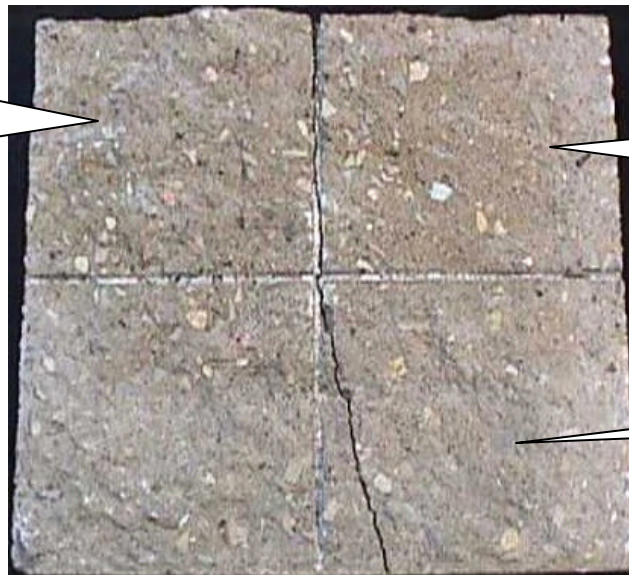


"Brown" 14 Day Cleaning

**Sure Klean[®]
Burnished
Custom Masonry
Cleaner 1:3**

**Sure Klean[®]
Burnished
Custom Masonry
Cleaner 1:2**

Untreated Control





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CONCLUSIONS - Cleaning

Based on the test data, all of the submitted samples were efficiently cleaned with a dilution of the selected PROSOCO Inc.'s cleaning product. 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 and Sure Klean[®] Burnished Custom Masonry Cleaner tested affected the substrate in a similar manner, removing slight to heavy concentrations of pigmented matrix from the split-face blocks, exposing small and large aggregate, and enhancing the natural appearance of the integrally colored concrete masonry unit.

RECOMMENDED PRODUCTS AND DILUTIONS - CLEANING

Recommendations for cleaning for each type of CMU submitted by County Materials Corporation, Appleton, WI are provided in the chart below. Recommendations are based on the optimum dilution for complete removal of mortar.

| Block | New Construction Cleaning (Type S mortar, 14 day cleaning) |
|---|--|
| "Premium Sienna Cream", "Brown", Dark Chocolate", "Tumbleweed", "Espresso", "Crimson" Split-face CMU's | Sure Klean [®] Custom Masonry Cleaner (1:4) |
| All Other Submitted Split-face CMU's | Sure Klean [®] Custom Masonry Cleaner (1:6) |
| All Submitted "Heritage Concrete Bricks" | Sure Klean [®] Burnished Custom Masonry Cleaner (1:3) |
| "Desert Sand" and "Iron River" Pavers | Sure Klean [®] Burnished Custom Masonry Cleaner (1:3) |
| "Royal Sunset" Paver | Sure Klean [®] Custom Masonry Cleaner (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. Pressure rinsing equipment providing at least 400 psi at 4-6 gpm delivered through a 15-40 degree fan spray often produces best cleaning 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 cleaning product and procedures for a particular project. See product literature for additional application and product information.



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SECTION B – COLOR UNIFORMITY

DESCRIPTION OF PRODUCTS EVALUATED – Color Uniformity:

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® Burnished Custom Masonry Cleaner - A general-purpose, non-etching acidic cleaner that removes rust, mud, oil, atmospheric dirt, mortar smears and other stains without altering the surface texture. Burnished Custom Masonry Cleaner adds depth to colors, brightens white matrices and exposed aggregate. Liquid concentrate for dilution with 2-3 parts water. Apply by brush or low-pressure spray.

TEST METHOD – Color Uniformity Testing:

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 appropriate dwell time, as specified.

| | |
|--|-------------|
| Custom Masonry Cleaner | 3 minutes |
| Burnished Custom Masonry Cleaner | 3-5 minutes |
4. Reapply the products 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. Break the sample in half and compare the through-body surfaces to the cleaned surfaces for the best match.

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



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TEST RESULTS – Color Uniformity

| Substrate: Split-face CMU | | Pigment Color: "Premium Cream" | |
|----------------------------------|----------|---------------------------------------|------------------------------------|
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:2 | 2 | 3 |
| Custom Masonry Cleaner | 1:4 | 2 | 3 |
| Custom Masonry Cleaner | 1:6 | 3 | 3 |
| Burnished Custom Masonry Cleaner | 1:2 | 2 | 3 |
| Burnished Custom Masonry Cleaner | 1:3 | 2 | 3 |
| | | | |
| Substrate: Split-face CMU | | Pigment Color: "Premium White" | |
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:2 | 3 | 3 |
| Custom Masonry Cleaner | 1:4 | 3 | 3 |
| Custom Masonry Cleaner | 1:6 | 3 | 4 |
| Burnished Custom Masonry Cleaner | 1:2 | 3 | 3 |
| Burnished Custom Masonry Cleaner | 1:3 | 3 | 3 |
| | | | |
| Substrate: Split-face CMU | | Pigment Color: "Premium Bisque" | |
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:2 | 3 | 3 |
| Custom Masonry Cleaner | 1:4 | 3 | 2 |
| Custom Masonry Cleaner | 1:6 | 4 | 3 |
| Burnished Custom Masonry Cleaner | 1:2 | 2 | 1 |
| Burnished Custom Masonry Cleaner | 1:3 | 2 | 1 |
| | | | |
| Substrate: Split-face CMU | | Pigment Color: "Premium Sienna Cream" | |
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:2 | 2 | 2 |
| Custom Masonry Cleaner | 1:4 | 4 | 3 |
| Custom Masonry Cleaner | 1:6 | 3 | 2 |
| Burnished Custom Masonry Cleaner | 1:2 | 2 | 2 |
| Burnished Custom Masonry Cleaner | 1:3 | 2 | 2 |
| | | | |

Scale used for reporting results of both categories

0 – **Worst** match to through-body
1 – **Poor** match to through-body
2 – **Fair** match to through-body

3 – **Good** match to through-body
4 – **Best** match to through-body



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TEST RESULTS – Color Uniformity (continued)

| Substrate: Split-face CMU | | Pigment Color: “Premium Salt + Pepper” | |
|----------------------------------|----------|---|------------------------------------|
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:2 | 2 | 3 |
| Custom Masonry Cleaner | 1:4 | 2 | 3 |
| Custom Masonry Cleaner | 1:6 | 3 | 3 |
| Burnished Custom Masonry Cleaner | 1:2 | 2 | 3 |
| Burnished Custom Masonry Cleaner | 1:3 | 2 | 3 |
| | | | |
| Substrate: Split-face CMU | | Pigment Color: “Natural Gray” | |
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:2 | 3 | 3 |
| Custom Masonry Cleaner | 1:4 | 3 | 3 |
| Custom Masonry Cleaner | 1:6 | 4 | 3 |
| Burnished Custom Masonry Cleaner | 1:2 | 2 | 1 |
| Burnished Custom Masonry Cleaner | 1:3 | 2 | 1 |
| | | | |
| Substrate: Split-face CMU | | Pigment Color: “Brown” | |
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:2 | 2 | 3 |
| Custom Masonry Cleaner | 1:4 | 3 | 4 |
| Custom Masonry Cleaner | 1:6 | 2 | 3 |
| Burnished Custom Masonry Cleaner | 1:2 | 2 | 2 |
| Burnished Custom Masonry Cleaner | 1:3 | 2 | 2 |
| | | | |
| Substrate: Split-face CMU | | Pigment Color: “Dark Chocolate” | |
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:2 | 2 | 3 |
| Custom Masonry Cleaner | 1:4 | 3 | 4 |
| Custom Masonry Cleaner | 1:6 | 2 | 3 |
| Burnished Custom Masonry Cleaner | 1:2 | 2 | 2 |
| Burnished Custom Masonry Cleaner | 1:3 | 2 | 2 |

Scale used for reporting results of both categories

0 – **Worst** match to through-body

1 – **Poor** match to through-body

2 – **Fair** match to through-body

3 – **Good** match to through-body

4 – **Best** match to through-body



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TEST RESULTS – Color Uniformity (continued)

| Substrate: Split-face CMU | | Pigment Color: "Red Clay" | |
|----------------------------------|----------|----------------------------------|------------------------------------|
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:2 | 3 | 3 |
| Custom Masonry Cleaner | 1:4 | 3 | 3 |
| Custom Masonry Cleaner | 1:6 | 3 | 4 |
| Burnished Custom Masonry Cleaner | 1:2 | 2 | 2 |
| Burnished Custom Masonry Cleaner | 1:3 | 2 | 2 |
| | | | |
| Substrate: Split-face CMU | | Pigment Color: "Adobe" | |
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:2 | 2 | 3 |
| Custom Masonry Cleaner | 1:4 | 2 | 3 |
| Custom Masonry Cleaner | 1:6 | 3 | 4 |
| Burnished Custom Masonry Cleaner | 1:2 | 2 | 3 |
| Burnished Custom Masonry Cleaner | 1:3 | 2 | 3 |
| | | | |
| Substrate: Split-face CMU | | Pigment Color: "Buff" | |
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:2 | 3 | 3 |
| Custom Masonry Cleaner | 1:4 | 3 | 3 |
| Custom Masonry Cleaner | 1:6 | 4 | 4 |
| Burnished Custom Masonry Cleaner | 1:2 | 2 | 2 |
| Burnished Custom Masonry Cleaner | 1:3 | 2 | 2 |
| | | | |
| Substrate: Split-face CMU | | Pigment Color: "Charcoal" | |
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:2 | 3 | 3 |
| Custom Masonry Cleaner | 1:4 | 3 | 3 |
| Custom Masonry Cleaner | 1:6 | 4 | 4 |
| Burnished Custom Masonry Cleaner | 1:2 | 3 | 2 |
| Burnished Custom Masonry Cleaner | 1:3 | 3 | 2 |

Scale used for reporting results of both categories

0 – **Worst** match to through-body

1 – **Poor** match to through-body

2 – **Fair** match to through-body

3 – **Good** match to through-body

4 – **Best** match to through-body



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TEST RESULTS – Color Uniformity (continued)

| Substrate: Split-face CMU | | Pigment Color: “Tumbleweed” | |
|----------------------------------|----------|-------------------------------------|------------------------------------|
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:2 | 3 | 3 |
| Custom Masonry Cleaner | 1:4 | 4 | 3 |
| Custom Masonry Cleaner | 1:6 | 3 | 3 |
| Burnished Custom Masonry Cleaner | 1:2 | 2 | 3 |
| Burnished Custom Masonry Cleaner | 1:3 | 2 | 3 |
| | | | |
| Substrate: Split-face CMU | | Pigment Color: “Espresso” | |
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:2 | 3 | 4 |
| Custom Masonry Cleaner | 1:4 | 4 | 4 |
| Custom Masonry Cleaner | 1:6 | 3 | 4 |
| Burnished Custom Masonry Cleaner | 1:2 | 2 | 3 |
| Burnished Custom Masonry Cleaner | 1:3 | 2 | 3 |
| | | | |
| Substrate: Split-face CMU | | Pigment Color: “Coral Brown” | |
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:2 | 3 | 3 |
| Custom Masonry Cleaner | 1:4 | 3 | 3 |
| Custom Masonry Cleaner | 1:6 | 4 | 3 |
| Burnished Custom Masonry Cleaner | 1:2 | 2 | 2 |
| Burnished Custom Masonry Cleaner | 1:3 | 2 | 2 |
| | | | |
| Substrate: Split-face CMU | | Pigment Color: “Mocha” | |
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:2 | 2 | 3 |
| Custom Masonry Cleaner | 1:4 | 3 | 3 |
| Custom Masonry Cleaner | 1:6 | 4 | 3 |
| Burnished Custom Masonry Cleaner | 1:2 | 1 | 1 |
| Burnished Custom Masonry Cleaner | 1:3 | 1 | 1 |

Scale used for reporting results of both categories

0 – **Worst** match to through-body

1 – **Poor** match to through-body

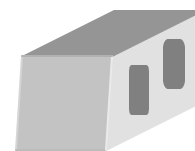
2 – **Fair** match to through-body

3 – **Good** match to through-body

4 – **Best** match to through-body



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TEST RESULTS – Color Uniformity (continued)

| Substrate: Split-face CMU | | Pigment Color: "Autumn Red" | |
|-------------------------------------|----------|--------------------------------------|------------------------------------|
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:2 | 2 | 3 |
| Custom Masonry Cleaner | 1:4 | 3 | 3 |
| Custom Masonry Cleaner | 1:6 | 4 | 3 |
| Burnished Custom Masonry Cleaner | 1:2 | 0 | 0 |
| Burnished Custom Masonry Cleaner | 1:3 | 0 | 0 |
| | | | |
| Substrate: Split-face CMU | | Pigment Color: "Crimson" | |
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:2 | 3 | 3 |
| Custom Masonry Cleaner | 1:4 | 4 | 3 |
| Custom Masonry Cleaner | 1:6 | 3 | 3 |
| Burnished Custom Masonry Cleaner | 1:2 | 2 | 2 |
| Burnished Custom Masonry Cleaner | 1:3 | 2 | 2 |
| | | | |
| Substrate: "Holland Paver" | | Pigment Color: "Royal Sunset" | |
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:6 | 4 | 4 |
| Burnished Custom Masonry Cleaner | 1:3 | 3 | 4 |
| | | | |
| Substrate: "Stockholm Paver" | | Pigment Color: "Iron River" | |
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:6 | 3 | 4 |
| Burnished Custom Masonry Cleaner | 1:3 | 4 | 4 |
| | | | |
| Substrate: "Stockholm Paver" | | Pigment Color: "Desert Sand" | |
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:6 | 4 | 4 |
| Burnished Custom Masonry Cleaner | 1:3 | 4 | 4 |

Scale used for reporting results of both categories

0 – **Worst** match to through-body

1 – **Poor** match to through-body

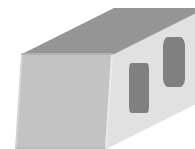
2 – **Fair** match to through-body

3 – **Good** match to through-body

4 – **Best** match to through-body



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TEST RESULTS – Color Uniformity (continued)

| Substrate: “Heritage Concrete Brick” Pigment Color: “Coffee Blend Medium” | | | |
|---|----------|--------------------|------------------------------------|
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:6 | 3 | 3 |
| Burnished Custom Masonry Cleaner | 1:3 | 4 | 4 |
| Substrate: “Heritage Concrete Brick” Pigment Color: “Cardinal Blend” | | | |
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:6 | 3 | 4 |
| Burnished Custom Masonry Cleaner | 1:3 | 4 | 4 |
| Substrate: “Heritage Concrete Brick” Pigment Color: “Ash Medium Blend” | | | |
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:6 | 3 | 4 |
| Burnished Custom Masonry Cleaner | 1:3 | 4 | 4 |

Scale used for reporting results of both categories

0 – **Worst** match to through-body

1 – **Poor** match to through-body

2 – **Fair** match to through-body

3 – **Good** match to through-body

4 – **Best** match to through-body

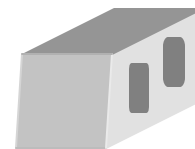
PHOTOGRAPHS – Color Uniformity

“Brown” after 14 day cleaning





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CONCLUSIONS: Color Uniformity

Higher concentrations of cleaner removed moderate to heavy concentrations of pigmented matrix, exposing small and large aggregate. Lower concentrations of cleaner removed slight to moderate concentrations of pigmented matrix, exposing small and large aggregate. All dilutions enhanced the natural appearance of the integrally colored CMU.

RECOMMENDATIONS - COLOR UNIFORMITY

Recommendations for color uniformity for each type of CMU submitted by County Materials Corporation, Appleton, WI are provided in the chart below. Recommendations are based on the optimum dilution that provides the best color uniformity.

| Block | Color Uniformity |
|--|--|
| "Premium Sienna Cream", "Brown", Dark Chocolate", "Tumbleweed", "Espresso", "Crimson" Split-face CMU's | Sure Klean [®] Custom Masonry Cleaner (1:4) |
| All Other Submitted Split-face CMU's | Sure Klean [®] Custom Masonry Cleaner (1:6) |
| All Submitted "Heritage Concrete Bricks" | Sure Klean [®] Burnished Custom Masonry Cleaner (1:3) |
| "Desert Sand" and "Iron River" Pavers | Sure Klean [®] Burnished Custom Masonry Cleaner (1:3) |
| "Royal Sunset" Paver | Sure Klean [®] Custom Masonry Cleaner (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. Pressure rinsing equipment providing at least 400 psi at 4-6 gpm delivered through a 15-40 degree fan spray often produces best cleaning 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 cleaning product and procedures for a particular project. See product literature for additional application and product information.



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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® Weather Seal Siloxane WB Concentrate – A self-emulsifying water repellent concentrate designed for dilution with fresh water at the job site. 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.

Sure Klean® Weather Seal Natural Stone Treatment WB – An odorless, water-based solution of potassium methyl silicate developed to effectively treat a wide range of natural stone and masonry surfaces. Natural Stone Treatment WB provides long-lasting repellency without altering the natural appearance of the substrate.

Sure Klean® Custom Masonry Sealer – A clear, solvent-based silicone elastomer formulated to weatherproof custom masonry units, cast stone, architectural concrete block, precast concrete, wood and porous masonry. Custom Masonry Sealer penetrates and fills pores to prevent water penetration through exterior walls exposed to normal weathering.

Sure Klean® Paver Enhancer – A solvent-based blend of high-quality siloxanes modified to provide excellent water repellency and color enhancement to interlocking concrete, fired clay, porous tile and many types of natural stone surfaces. Paver Enhancer penetrates and reacts with the surface to form a chemical bond, providing long-term durability, alkali resistance and superior breathability.

Consolidex® Saltguard® WB – A ready-to-use water-based, VOC compliant silane/ siloxane water repellent and “chloride screen” for the protection of concrete and masonry surfaces. Saltguard® WB penetrates more deeply than conventional water- or solvent-based water repellents. Low odor and alkaline stable, Saltguard® WB is ideal for field or in-plant application to concrete and most masonry surfaces. Saltguard® WB protects horizontal and vertical surfaces from moisture intrusion and chemical attack of chloride salts.

SAMPLE PREPARATION - Protective Water Repellents:

The submitted blocks were scored, allowed to dry, and to reabsorb atmospheric humidity for 24 hours prior to treatment. All products were applied in accordance with the recommendations in the PROSOCO, Inc. product guide. All treatments were allowed to cure at least 3 days 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

| RESULTS | |
|--|----------|
| "Premium Cream" Split-face CMU | |
| Untreated Control | 57 mph |
| Siloxane WB Concentrate (1:9) | 55 mph |
| Siloxane WB Concentrate (1:14) | 56 mph |
| Custom Masonry Sealer | 60 mph |
| Natural Stone Treatment WB | 57 mph |
| "Premium White" Split-face CMU | |
| Untreated Control | < 40 mph |
| Siloxane WB Concentrate (1:9) | < 40 mph |
| Siloxane WB Concentrate (1:14) | < 40 mph |
| Custom Masonry Sealer | < 40 mph |
| Natural Stone Treatment WB | 59 mph |
| "Premium Bisque" Split-face CMU | |
| Untreated Control | < 40 mph |
| Siloxane WB Concentrate (1:9) | < 40 mph |
| Siloxane WB Concentrate (1:14) | < 40 mph |
| Custom Masonry Sealer | < 40 mph |
| Natural Stone Treatment WB | 57 mph |



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Results

| "Premium Sienna Cream" Split-face CMU | |
|--|----------|
| Untreated Control | 59 mph |
| Siloxane WB Concentrate (1:9) | 60 mph |
| Siloxane WB Concentrate (1:14) | 59 mph |
| Custom Masonry Sealer | 59 mph |
| Natural Stone Treatment WB | 60 mph |
| "Premium Salt + Pepper" Split-face CMU | |
| Untreated Control | < 40 mph |
| Siloxane WB Concentrate (1:9) | 58 mph |
| Siloxane WB Concentrate (1:14) | 58 mph |
| Custom Masonry Sealer | 60 mph |
| Natural Stone Treatment WB | < 40 mph |
| "Natural Gray" Split-face CMU | |
| Untreated Control | 54 mph |
| Siloxane WB Concentrate (1:9) | 58 mph |
| Siloxane WB Concentrate (1:14) | 58 mph |
| Custom Masonry Sealer | 49 mph |
| Natural Stone Treatment WB | 60 mph |
| "Brown" Split-face CMU | |
| Untreated Control | < 40 mph |
| Siloxane WB Concentrate (1:9) | 60 mph |
| Siloxane WB Concentrate (1:14) | 60 mph |
| Custom Masonry Sealer | 60 mph |
| Natural Stone Treatment WB | 59 mph |
| "Dark Chocolate" Split-face CMU | |
| Untreated Control | < 40 mph |
| Siloxane WB Concentrate (1:9) | 60 mph |
| Siloxane WB Concentrate (1:14) | 59 mph |
| Custom Masonry Sealer | 60 mph |
| Natural Stone Treatment WB | 58 mph |



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Results

| "Red Clay" Split-face CMU | |
|--------------------------------|----------|
| Untreated Control | < 40 mph |
| Siloxane WB Concentrate (1:9) | 60 mph |
| Siloxane WB Concentrate (1:14) | 58 mph |
| Custom Masonry Sealer | 59 mph |
| Natural Stone Treatment WB | 59 mph |
| "Adobe" Split-face CMU | |
| Untreated Control | < 40 mph |
| Siloxane WB Concentrate (1:9) | 57 mph |
| Siloxane WB Concentrate (1:14) | 53 mph |
| Custom Masonry Sealer | 60 mph |
| Natural Stone Treatment WB | < 40 mph |
| "Buff" Split-face CMU | |
| Untreated Control | 45 mph |
| Siloxane WB Concentrate (1:9) | 59 mph |
| Siloxane WB Concentrate (1:14) | 58 mph |
| Custom Masonry Sealer | 55 mph |
| Natural Stone Treatment WB | 60 mph |
| "Charcoal" Split-face CMU | |
| Untreated Control | < 40 mph |
| Siloxane WB Concentrate (1:9) | 55 mph |
| Siloxane WB Concentrate (1:14) | 59 mph |
| Custom Masonry Sealer | 58 mph |
| Natural Stone Treatment WB | 57 mph |
| "Tumbleweed" Split-face CMU | |
| Untreated Control | 43 mph |
| Siloxane WB Concentrate (1:9) | 59 mph |
| Siloxane WB Concentrate (1:14) | 58 mph |
| Custom Masonry Sealer | < 40 mph |
| Natural Stone Treatment WB | 60 mph |



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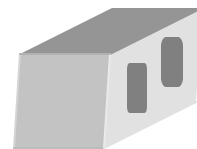
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Results

| "Espresso" Split-face CMU | |
|--------------------------------|----------|
| Untreated Control | < 40 mph |
| Siloxane WB Concentrate (1:9) | 59 mph |
| Siloxane WB Concentrate (1:14) | 57 mph |
| Custom Masonry Sealer | 60 mph |
| Natural Stone Treatment WB | 60 mph |
| "Coral Brown" Split-face CMU | |
| Untreated Control | 47 mph |
| Siloxane WB Concentrate (1:9) | 51 mph |
| Siloxane WB Concentrate (1:14) | 51 mph |
| Custom Masonry Sealer | 52 mph |
| Natural Stone Treatment WB | 57 mph |
| "Mocha" Split-face CMU | |
| Untreated Control | < 40 mph |
| Siloxane WB Concentrate (1:9) | 60 mph |
| Siloxane WB Concentrate (1:14) | 57 mph |
| Custom Masonry Sealer | 60 mph |
| Natural Stone Treatment WB | 59 mph |
| "Autumn Red" Split-face CMU | |
| Untreated Control | < 40 mph |
| Siloxane WB Concentrate (1:9) | 60 mph |
| Siloxane WB Concentrate (1:14) | 60 mph |
| Custom Masonry Sealer | 60 mph |
| Natural Stone Treatment WB | 60 mph |
| "Crimson" Split-face CMU | |
| Untreated Control | 56 mph |
| Siloxane WB Concentrate (1:9) | 58 mph |
| Siloxane WB Concentrate (1:14) | 56 mph |
| Custom Masonry Sealer | 57 mph |
| Natural Stone Treatment WB | 58 mph |



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Results

| "Royal Sunset" Holland paver | |
|--|----------|
| Untreated Control | 49 mph |
| Paver Enhancer | 59 mph |
| Salt Guard WB | 58 mph |
| "Iron River" Stockholm paver | |
| Untreated Control | 45 mph |
| Paver Enhancer | 59 mph |
| Salt Guard WB | 44 mph |
| "Desert Sand" Stockholm paver | |
| Untreated Control | < 40 mph |
| Paver Enhancer | 58 mph |
| Salt Guard WB | 43 mph |
| "Coffee Blend Medium" concrete brick | |
| Untreated Control | 46 mph |
| Siloxane WB Concentrate (1:9) | 57 mph |
| Siloxane WB Concentrate (1:14) | 58 mph |
| Custom Masonry Sealer | < 40 mph |
| Natural Stone Treatment WB | < 40 mph |
| "Cardinal Blend Medium" concrete brick | |
| Untreated Control | 59 mph |
| Siloxane WB Concentrate (1:9) | 60 mph |
| Siloxane WB Concentrate (1:14) | 60 mph |
| Custom Masonry Sealer | 60 mph |
| Natural Stone Treatment WB | 58 mph |
| "Ash Blend Medium" concrete brick | |
| Untreated Control | 60 mph |
| Siloxane WB Concentrate (1:9) | < 40 mph |
| Siloxane WB Concentrate (1:14) | 59 mph |
| Custom Masonry Sealer | 60 mph |
| Natural Stone Treatment WB | 57 mph |



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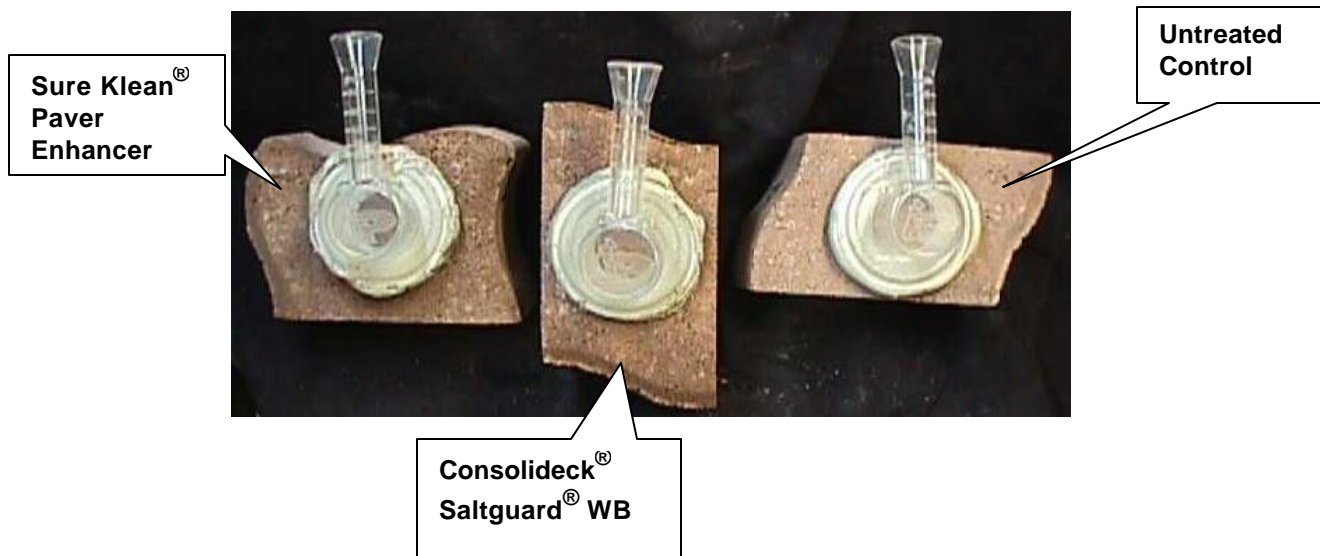


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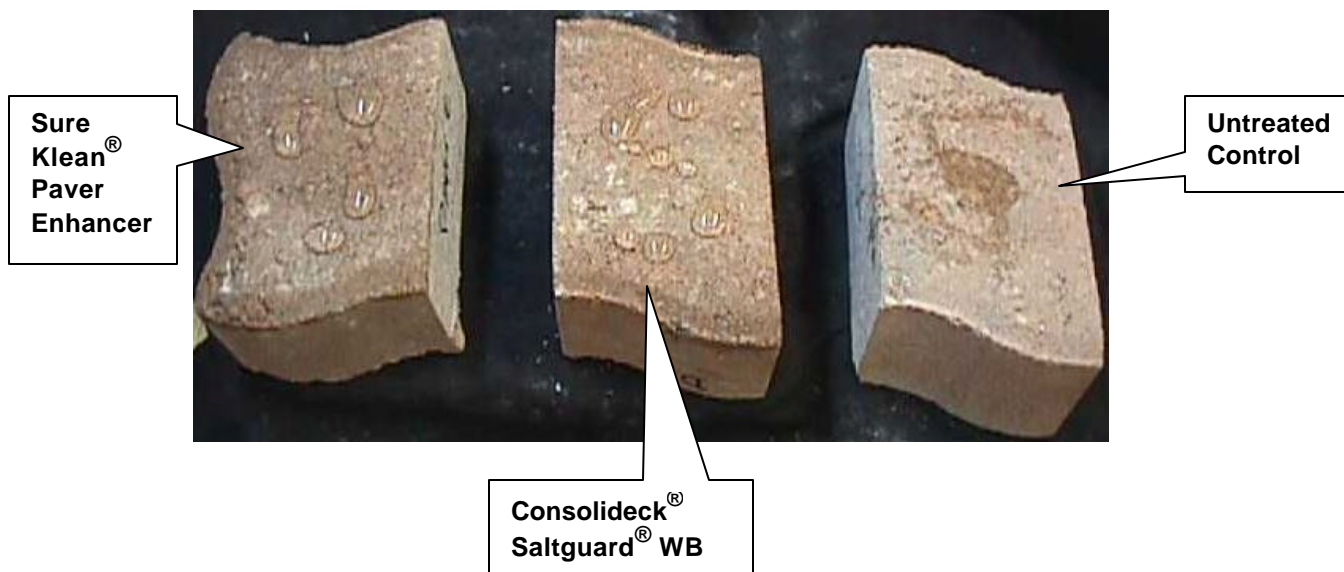
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PHOTOGRAPHS – Protective Water Repellents

“Desert Sand” Paver during RILEM testing



“Desert Sand” Paver Surface Beading





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CONCLUSIONS – Protective Water Repellents

Based upon laboratory evaluations, at least one of the products of PROSOCO, Inc., provided above average water repellency to each of the submitted samples.

Sure Klean® Custom Masonry Sealer provided slight color enhancement to the submitted samples. Sure Klean® Paver Enhancer provided moderate to significant color enhancement to the submitted samples.

RECOMMENDATIONS - PROTECTIVE WATER REPELLENTS

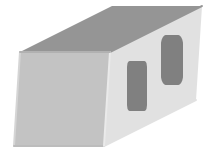
Recommendations for water repellency treatment for each type of CMU submitted by County Materials Corporation, Appleton, WI are provided in the chart below. Recommendations are based on the treatment that proved most effective and can provide water repellency on all types submitted.

| Block Type | Water Repellents |
|---|--|
| "Premium White", "Premium Bisque", "Natural Gray", "Buff" "Tumbleweed", and "Coral Brown" CMU's | Sure Klean® Weather Seal Natural Stone Treatment WB |
| "Premium Cream", "Premium Salt + Pepper", and "Adobe" CMU's, and "Ash Blend" Concrete Brick | Sure Klean® Custom Masonry Sealer |
| "Red Clay" CMU | Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) |
| "Charcoal" CMU, "Coffee Blend" and "Cardinal Blend" Concrete Brick | Sure Klean® Weather Seal Siloxane WB Concentrate (1:14) |
| "Brown" CMU | Sure Klean® Weather Seal Siloxane WB Concentrate (1:9), (1:14) or Sure Klean® Custom Masonry Sealer |
| "Dark Chocolate", "Mocha", and "Premium Sienna Cream" CMU's | Sure Klean® Custom Masonry Sealer or Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) |
| "Espresso" CMU | Sure Klean® Custom Masonry Sealer or Sure Klean® Weather Seal Natural Stone Treatment WB |
| "Autumn Red" CMU | Sure Klean® Weather Seal Natural Stone Treatment WB or Sure Klean® Custom Masonry Sealer or Sure Klean® Weather Seal Siloxane WB Concentrate (1:9), (1:14) |
| "Crimson" CMU | Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) or Sure Klean® Weather Seal Natural Stone Treatment WB |
| All Submitted Pavers | Sure Klean® Paver Enhancer |

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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SECTION D – GRAFFITI CONTROL

DESCRIPTION OF PRODUCTS EVALUATED

These trials were conducted to determine the optimal graffiti control treatment for the submitted concrete block and brick samples.

Graffiti Control Treatments

Sure Klean® 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.

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.

Defacer Eraser® Graffiti Release - An easy-to-use graffiti remover that does not contain methanol, methylene chloride or other “halogenated” solvents prohibited on many projects. Graffiti Release 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)



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SAMPLE PREPARATION – Graffiti Control

This evaluation compares the effectiveness in preventing staining of enamel spray paint and permanent markers.

Sections of the concrete block & brick samples were treated with Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control, in accordance with PROSOCO, Inc.'s Product Guide application recommendations and then allowed to cure for at least one day. At the end of the one-day cure period, 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. Removal of the graffiti agents was attempted 24 hours after application of the graffiti agents, using either Defacer Eraser[®] Graffiti Wipe, Defacer Eraser[®] Graffiti Release or Sure Klean[®] Fast Acting Stripper.

TEST METHOD – Graffiti Control

Chemical cleaners were evaluated using the following procedure:

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

| | |
|----------------------------|------------|
| Graffiti Wipe | 5 minutes |
| Graffiti Release | 15 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 was conducted at approximately 1300 psi with a warm water flow rate of 1.9 gallons per minute.



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TEST RESULTS – Graffiti Control

| “Premium Cream” Split-face CMU | | | | | |
|---------------------------------------|-----------|--------------|--------------|------------|----------------|
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 50% | 70% | 80% | 75% | 69% |
| Graffiti Wipe | 85% | 70% | 70% | 70% | 74% |
| Graffiti Release | 20% | 65% | 65% | 65% | 54% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 90% | 95% | 95% | 95% | 94% |
| Graffiti Wipe | 95% | 95% | 95% | 95% | 95% |
| Graffiti Release | 85% | 75% | 75% | 75% | 78% |
| “Premium White” Split-face CMU | | | | | |
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 50% | 60% | 60% | 60% | 58% |
| Graffiti Wipe | 70% | 50% | 50% | 50% | 55% |
| Graffiti Release | 20% | 40% | 40% | 40% | 35% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 80% | 95% | 95% | 95% | 91% |
| Graffiti Wipe | 95% | 90% | 90% | 90% | 91% |
| Graffiti Release | 40% | 70% | 70% | 70% | 63% |
| “Premium Bisque” Split-face CMU | | | | | |
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 75% | 75% | 75% | 75% | 75% |
| Graffiti Wipe | 65% | 60% | 60% | 60% | 61% |
| Graffiti Release | 50% | 60% | 60% | 60% | 58% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 80% | 95% | 95% | 95% | 91% |
| Graffiti Wipe | 85% | 90% | 95% | 90% | 90% |
| Graffiti Release | 40% | 80% | 80% | 80% | 70% |
| “Premium Sienna Cream” Split-face CMU | | | | | |
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 80% | 90% | 70% | 85% | 81% |
| Graffiti Wipe | 80% | 70% | 70% | 85% | 76% |
| Graffiti Release | 20% | 70% | 70% | 70% | 58% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 85% | 98% | 98% | 98% | 95% |
| Graffiti Wipe | 90% | 98% | 98% | 98% | 96% |
| Graffiti Release | 75% | 90% | 90% | 90% | 86% |



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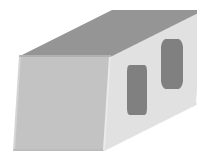
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TEST RESULTS – Graffiti Control Continued

| “Premium Salt + Pepper” Split-face CMU | | | | | |
|--|-----------|--------------|--------------|------------|----------------|
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 60% | 90% | 85% | 85% | 80% |
| Graffiti Wipe | 85% | 85% | 85% | 85% | 85% |
| Graffiti Release | 40% | 50% | 50% | 50% | 48% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 60% | 95% | 95% | 95% | 86% |
| Graffiti Wipe | 90% | 95% | 95% | 95% | 94% |
| Graffiti Release | 70% | 90% | 90% | 90% | 85% |
| “Natural Gray” Split-face CMU | | | | | |
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 40% | 95% | 85% | 85% | 76% |
| Graffiti Wipe | 70% | 85% | 85% | 85% | 81% |
| Graffiti Release | 40% | 85% | 85% | 85% | 74% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 50% | 100% | 100% | 100% | 88% |
| Graffiti Wipe | 95% | 100% | 100% | 100% | 99% |
| Graffiti Release | 85% | 90% | 90% | 90% | 89% |
| “Brown” Split-face CMU | | | | | |
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 65% | 95% | 85% | 85% | 83% |
| Graffiti Wipe | 65% | 90% | 85% | 85% | 81% |
| Graffiti Release | 75% | 85% | 85% | 85% | 83% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 75% | 100% | 100% | 100% | 94% |
| Graffiti Wipe | 80% | 100% | 100% | 100% | 95% |
| Graffiti Release | 20% | 90% | 90% | 90% | 73% |
| “Dark Chocolate” Split-face CMU | | | | | |
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 80% | 90% | 90% | 90% | 88% |
| Graffiti Wipe | 80% | 90% | 90% | 90% | 88% |
| Graffiti Release | 65% | 80% | 80% | 80% | 76% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 50% | 95% | 95% | 95% | 84% |
| Graffiti Wipe | 95% | 100% | 100% | 100% | 99% |
| Graffiti Release | 85% | 100% | 100% | 100% | 96% |



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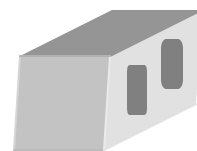
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TEST RESULTS – Graffiti Control Continued

| “Red Clay” Split-face CMU | | | | | |
|--------------------------------|-----------|--------------|--------------|------------|----------------|
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 75% | 85% | 85% | 85% | 83% |
| Graffiti Wipe | 95% | 80% | 80% | 80% | 84% |
| Graffiti Release | 40% | 70% | 70% | 70% | 63% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 80% | 95% | 95% | 95% | 91% |
| Graffiti Wipe | 100% | 95% | 95% | 95% | 96% |
| Graffiti Release | 65% | 85% | 85% | 85% | 80% |
| “Adobe” Split-face CMU | | | | | |
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 75% | 95% | 90% | 95% | 89% |
| Graffiti Wipe | 80% | 95% | 85% | 95% | 89% |
| Graffiti Release | 20% | 85% | 85% | 90% | 70% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 60% | 100% | 100% | 100% | 90% |
| Graffiti Wipe | 95% | 100% | 100% | 100% | 99% |
| Graffiti Release | 50% | 95% | 95% | 95% | 84% |
| “Buff” Split-face CMU | | | | | |
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 75% | 95% | 85% | 85% | 85% |
| Graffiti Wipe | 90% | 80% | 80% | 80% | 83% |
| Graffiti Release | 60% | 70% | 70% | 70% | 68% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 75% | 95% | 95% | 95% | 90% |
| Graffiti Wipe | 85% | 95% | 95% | 95% | 93% |
| Graffiti Release | 50% | 90% | 90% | 90% | 80% |
| “Charcoal” Split-face CMU | | | | | |
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 95% | 95% | 90% | 90% | 93% |
| Graffiti Wipe | 100% | 90% | 85% | 85% | 90% |
| Graffiti Release | 30% | 85% | 80% | 80% | 69% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 85% | 100% | 100% | 100% | 96% |
| Graffiti Wipe | 95% | 100% | 100% | 100% | 99% |
| Graffiti Release | 50% | 95% | 85% | 85% | 79% |



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TEST RESULTS – Graffiti Control Continued

| “Tumbleweed” Split-face CMU | | | | | |
|--------------------------------|-----------|--------------|--------------|------------|----------------|
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 70% | 70% | 70% | 70% | 70% |
| Graffiti Wipe | 70% | 65% | 65% | 65% | 66% |
| Graffiti Release | 50% | 70% | 65% | 65% | 63% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 90% | 90% | 95% | 95% | 93% |
| Graffiti Wipe | 85% | 90% | 95% | 95% | 91% |
| Graffiti Release | 65% | 75% | 75% | 75% | 73% |
| “Espresso” Split-face CMU | | | | | |
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 90% | 90% | 85% | 85% | 88% |
| Graffiti Wipe | 90% | 85% | 85% | 85% | 86% |
| Graffiti Release | 50% | 80% | 80% | 80% | 73% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 95% | 100% | 100% | 100% | 99% |
| Graffiti Wipe | 95% | 100% | 100% | 100% | 99% |
| Graffiti Release | 70% | 90% | 90% | 90% | 85% |
| “Coral Brown” Split-face CMU | | | | | |
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 65% | 95% | 95% | 95% | 88% |
| Graffiti Wipe | 80% | 75% | 75% | 90% | 80% |
| Graffiti Release | 40% | 75% | 75% | 75% | 66% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 90% | 100% | 100% | 100% | 98% |
| Graffiti Wipe | 95% | 95% | 100% | 95% | 96% |
| Graffiti Release | 50% | 75% | 75% | 75% | 69% |
| “Mocha” Split-face CMU | | | | | |
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 60% | 90% | 90% | 90% | 83% |
| Graffiti Wipe | 90% | 90% | 90% | 90% | 90% |
| Graffiti Release | 50% | 75% | 75% | 75% | 69% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 85% | 100% | 100% | 100% | 96% |
| Graffiti Wipe | 90% | 100% | 100% | 100% | 98% |
| Graffiti Release | 75% | 95% | 100% | 95% | 91% |



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TEST RESULTS – Graffiti Control Continued

| “Autumn Red” Split-face CMU | | | | | |
|---|-----------|--------------|--------------|------------|----------------|
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 80% | 95% | 95% | 100% | 93% |
| Graffiti Wipe | 85% | 90% | 90% | 100% | 91% |
| Graffiti Release | 65% | 90% | 90% | 95% | 85% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 85% | 100% | 100% | 100% | 96% |
| Graffiti Wipe | 90% | 100% | 100% | 100% | 93% |
| Graffiti Release | 70% | 95% | 100% | 100% | 91% |
| “Crimson” Split-face CMU | | | | | |
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 90% | 90% | 90% | 100% | 93% |
| Graffiti Wipe | 90% | 80% | 90% | 95% | 89% |
| Graffiti Release | 75% | 80% | 80% | 95% | 83% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 95% | 100% | 100% | 100% | 96% |
| Graffiti Wipe | 95% | 100% | 100% | 100% | 96% |
| Graffiti Release | 80% | 90% | 95% | 95% | 90% |
| “Coffee Medium Blend” Heritage Concrete brick | | | | | |
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 85% | 85% | 85% | 85% | 85% |
| Graffiti Wipe | 95% | 85% | 85% | 85% | 88% |
| Graffiti Release | 70% | 80% | 80% | 80% | 77% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 85% | 100% | 95% | 95% | 94% |
| Graffiti Wipe | 95% | 100% | 95% | 95% | 96% |
| Graffiti Release | 50% | 70% | 70% | 70% | 65% |
| “Cardinal Medium Blend” Heritage Concrete brick | | | | | |
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 100% | 95% | 95% | 95% | 96% |
| Graffiti Wipe | 100% | 80% | 80% | 90% | 88% |
| Graffiti Release | 95% | 80% | 80% | 80% | 84% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 95% | 100% | 100% | 100% | 99% |
| Graffiti Wipe | 100% | 100% | 100% | 100% | 100% |
| Graffiti Release | 100% | 100% | 100% | 100% | 100% |



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TEST RESULTS – Graffiti Control Continued

| "Ash Blend" Heritage Concrete brick | | | | | |
|-------------------------------------|-----------|--------------|--------------|------------|----------------|
| Untreated Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 70% | 75% | 75% | 75% | 71% |
| Graffiti Wipe | 85% | 75% | 75% | 75% | 78% |
| Graffiti Release | 50% | 80% | 80% | 80% | 73% |
| Blok-Guard® & Graffiti Control | Red Paint | Black Marker | Green Marker | Red Marker | % Avg. Removal |
| Fast Acting Stripper | 75% | 95% | 85% | 90% | 86% |
| Graffiti Wipe | 90% | 90% | 90% | 90% | 90% |
| Graffiti Release | 65% | 50% | 50% | 50% | 54% |



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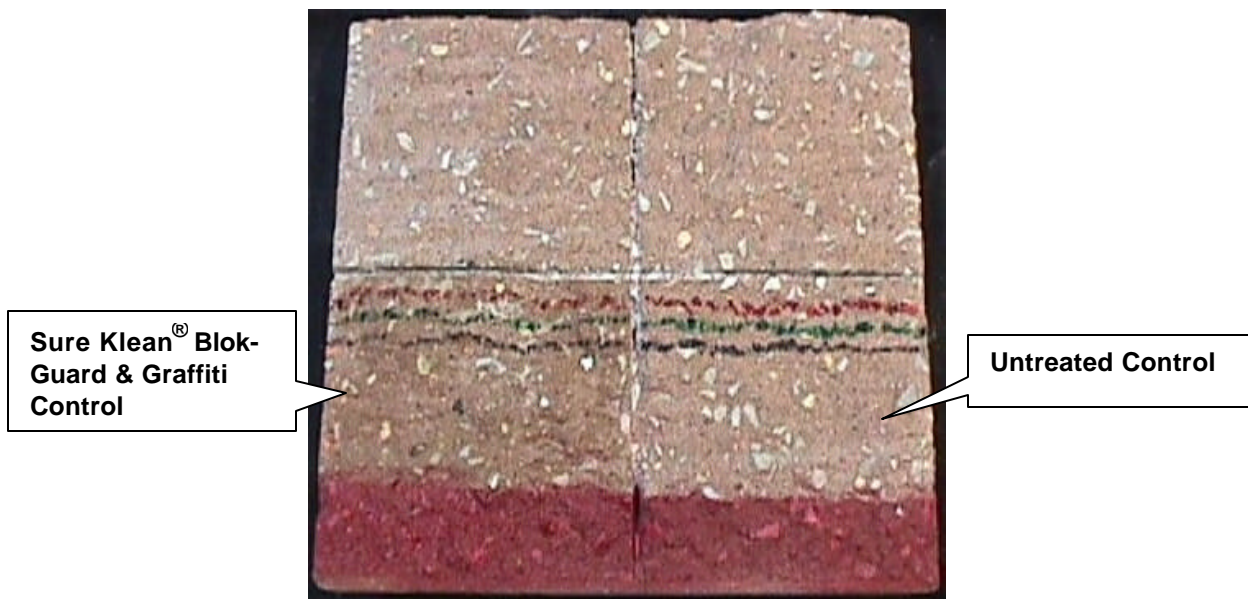


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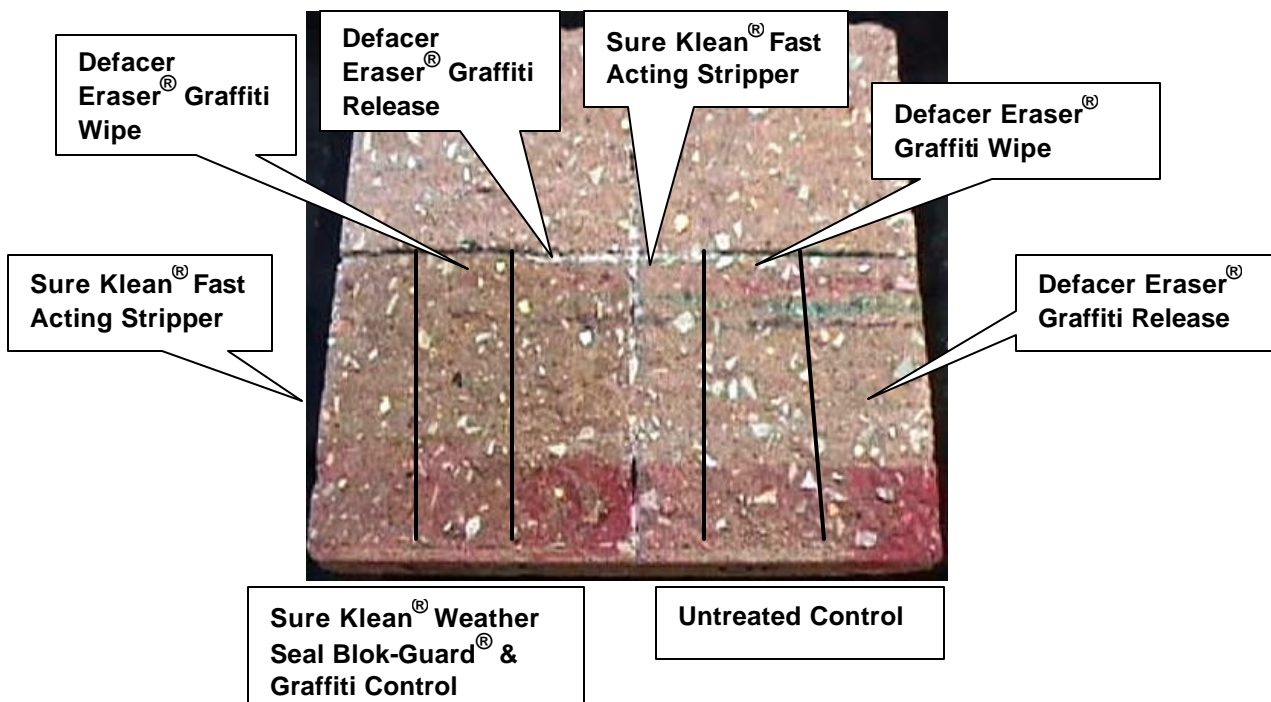
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PHOTOGRAPHS – Graffiti Control

“Coral Brown” Before Graffiti Removal



“Coral Brown” After Graffiti Removal





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CONCLUSIONS – Graffiti Control

Based upon laboratory evaluations, graffiti removal was improved dramatically when the submitted samples were treated with Sure Klean® Weather Seal Blok-Guard® & Graffiti Control prior to graffiti application.

Sure Klean® Weather Seal Blok-Guard® & Graffiti Control provided a slight color enhancement to the submitted samples.

RECOMMENDATIONS – GRAFFITI CONTROL

Recommendations for graffiti control treatment for each type of block and concrete brick submitted by County Materials Corporation, Appleton, 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.

| Block Type | Graffiti Repellents | Graffiti Removers |
|---|--|---|
| "Premium Bisque", "Tumbleweed", "Autumn Red" Split-face CMU' | Sure Klean® Weather Seal Blok-Guard® & Graffiti Control | Sure Klean® Fast Acting Stripper |
| "Premium White", "Espresso", "Crimson" Split-face CMU's | | Sure Klean® Fast Acting Stripper or Defacer Eraser® Graffiti Wipe |
| All Other Submitted Split-face CMU's | | Defacer Eraser® Graffiti Wipe |
| All Submitted "Heritage Concrete Bricks" | | 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.

For the most severe graffiti cases Sure Klean® Fast Acting Stripper is recommended for job-site testing. For mild graffiti cases, Defacer Eraser® Graffiti Wipe and Defacer Eraser® Graffiti Release are recommended for job-site testing. See product literature for additional application and product information.



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SECTION E – STAIN RESISTANCE

DESCRIPTION OF PRODUCTS EVALUATED

These trials were conducted to determine the effectiveness of treatments in preventing food, oil, and miscellaneous staining on the submitted paver samples.

Products Evaluated for Stain Protection: *

Stand Off® Stone, Tile & Masonry Protector – A penetrating oil and stain repellent. Easy-to-use. Low-VOC, low-odor protective treatment improves the stain resistance and simplifies maintenance cleaning of interior and exterior stone, quarry tile, concrete and masonry surfaces.

Stand Off® Impregnator – Combines water and oil repellency on most substrates to prevent staining by waterborne and oily substances. This modified special system offers invisible protection and low volatility. The small molecular structure of Impregnator lets it penetrate and chemically bond deep within the substrate to provide long-lasting protection against water- and oil-related staining and deterioration.

Stand Off® SLX100 Water & Oil Repellent - Combines water and oil repellency on most substrates to prevent staining by waterborne and oily substances. This modified “neat” silane system offers invisible protection and low volatility. The small molecular structure of SLX100 allows for maximum penetration at coverage rates higher than that of conventional silanes. Depth of penetration is controlled by the application rate (loading rate). This makes SLX100 ideal for protecting granite and other dense, color-sensitive surfaces.

Kitchen Products Evaluated:

Temperature:

| | |
|------------------|------------------|
| Coca Cola | ambient (~70°F) |
| Ketchup | ambient (~70°F) |
| Mustard | ambient (~70°F) |
| Red wine | ambient (~70°F) |
| Balsamic Vinegar | ambient (~70°F) |
| Soy Sauce | ambient (~70°F) |
| Olive Oil | ambient (~70°F) |
| Wesson Oil | ambient (~250°F) |
| Coffee | ambient (~120°F) |

SAMPLE PREPARATION – Stain Resistance

Samples were cleaned with Enviro Klean® 2010 All Surface Cleaner diluted with 10 parts water, allowed to dry and absorb atmospheric moisture for 24 hours prior to treatment. The method of application for protective treatments consisted of a wet-on-wet saturating brush application. Samples were allowed to cure for at least 1 week prior to testing.



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TEST METHOD – Stain Resistance

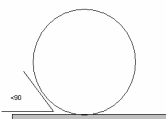
Surface Beading Evaluation

The food and oil products were applied to the test areas by using a dropper creating a bead 0.5 – 1.0 cm in diameter. The beading properties of the oils and liquids were visually evaluated within two minutes after application. The results are reported as a rating based on the angle of contact between the base of the droplet and the substrate. A rating of “1 or 2” indicated the smallest angle of contact ($<90^\circ$) which correlates to “above average” repellency. A rating of “3 or 4” indicates “average” repellency. A rating of “5 or greater” indicated that the oil quickly absorbed into the substrate and correlates to “below average” repellency.

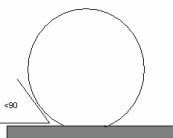
Note: Non-free flowing staining agents such as ketchup and mustard are applied in a blob and not evaluated for their beading properties.

Rating System (1-5)

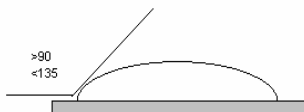
1. No wetting of contact area (no darkening); angle less than 90°



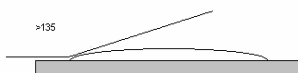
2. Wetting contained to the contact area (slight darkening); angle is less than 90°



3. Wetting contained to the contact area (slight darkening); angle is greater than 90° , but less than 135° .



4. Wetting beyond the contact area (darkening); angle is greater than 135°



5. Wetting beyond the contact area (darkening); angle is flat.

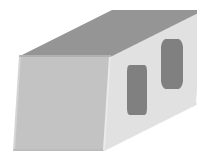


Stain Removal Evaluation

The soiling agents were allowed to dwell on the treated and untreated substrates for times of 24 hours, 4 hours, 1 hour, and 10 minutes. The test areas were then cleaned with Enviro Klean® 2010 All Surface Cleaner diluted 1 part concentrate to 10 parts fresh water and scrubbed under a stream of running water from a faucet. Samples were allowed to dry for 24 hours. Evaluation consisted of a visual examination of the tested areas to determine the percentage of staining removal.



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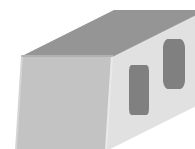
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TEST RESULTS – Surface Beading

| “Royal Sunset” Holland Paver | | | | | | | | | |
|-------------------------------|-----------|---------|---------|----------|------------------|-----------|-----------|------------|------------|
| | Coca-Cola | Ketchup | Mustard | Red Wine | Balsamic Vinegar | Soy Sauce | Olive Oil | Wesson Oil | Hot Coffee |
| Untreated Control | 5 | - | - | 5 | 4 | 4 | 5 | 5 | 4 |
| SLX 100 | 1 | - | - | 1 | 1 | 1 | 2 | 2 | 2 |
| Impregnator | 1 | - | - | 1 | 1 | 1 | 2 | 2 | 2 |
| STMP | 2 | - | - | 3 | 2 | 2 | 2 | 2 | 2 |
| “Iron River” Stockholm Paver | | | | | | | | | |
| | Coca-Cola | Ketchup | Mustard | Red Wine | Balsamic Vinegar | Soy Sauce | Olive Oil | Wesson Oil | Hot Coffee |
| Untreated Control | 5 | - | - | 5 | 5 | 5 | 5 | 5 | 5 |
| SLX 100 | 1 | - | - | 1 | 1 | 1 | 2 | 2 | 2 |
| Impregnator | 1 | - | - | 2 | 2 | 2 | 2 | 2 | 2 |
| STMP | 2 | - | - | 2 | 2 | 2 | 2 | 2 | 2 |
| “Desert Sand” Stockholm Paver | | | | | | | | | |
| | Coca-Cola | Ketchup | Mustard | Red Wine | Balsamic Vinegar | Soy Sauce | Olive Oil | Wesson Oil | Hot Coffee |
| Untreated Control | 5 | - | - | 5 | 3 | 3 | 5 | 5 | 5 |
| SLX 100 | 1 | - | - | 1 | 1 | 1 | 2 | 2 | 2 |
| Impregnator | 1 | - | - | 1 | 1 | 1 | 2 | 2 | 2 |
| STMP | 1 | - | - | 2 | 2 | 2 | 2 | 2 | 2 |



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TEST RESULTS – STAINING REMOVAL

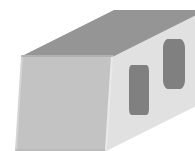
%Removal

“Royal Sunset” Paver

| Untreated Control | | | | | | | | | |
|---|-----------|---------|---------|----------|------------------|-----------|-----------|------------|------------|
| | Coca Cola | Ketchup | Mustard | Red Wine | Balsamic Vinegar | Soy Sauce | Olive Oil | Wesson Oil | Hot Coffee |
| 24 hr | 100% | 85% | 80% | 95% | 80% | 80% | <1% | <1% | 80% |
| 4 hour | 100% | 85% | 80% | 95% | 80% | 80% | <1% | <1% | 80% |
| 1 hour | 100% | 85% | 85% | 95% | 90% | 90% | <1% | <1% | 80% |
| 10 min. | 100% | 95% | 95% | 100% | 90% | 90% | <1% | <1% | 90% |
| Stand Off® Stone, Tile, & Masonry Protector | | | | | | | | | |
| | Coca Cola | Ketchup | Mustard | Red Wine | Balsamic Vinegar | Soy Sauce | Olive Oil | Wesson Oil | Hot Coffee |
| 24 hr | 100% | 100% | 100% | 90% | 90% | 100% | 100% | 100% | 100% |
| 4 hour | 100% | 100% | 100% | 90% | 100% | 100% | 100% | 100% | 100% |
| 1 hour | 100% | 100% | 100% | 95% | 100% | 100% | 100% | 100% | 100% |
| 10 min. | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| Stand Off® SLX 100 Water & Oil Repellent | | | | | | | | | |
| | Coca Cola | Ketchup | Mustard | Red Wine | Balsamic Vinegar | Soy Sauce | Olive Oil | Wesson Oil | Hot Coffee |
| 24 hr | 95% | 95% | 90% | 100% | 100% | 95% | 100% | 100% | 100% |
| 4 hour | 95% | 95% | 90% | 100% | 100% | 90% | 100% | 100% | 100% |
| 1 hour | 95% | 95% | 90% | 100% | 100% | 90% | 100% | 100% | 100% |
| 10 min. | 100% | 100% | 95% | 100% | 100% | 90% | 100% | 100% | 100% |
| Stand Off® Impregnator | | | | | | | | | |
| | Coca Cola | Ketchup | Mustard | Red Wine | Balsamic Vinegar | Soy Sauce | Olive Oil | Wesson Oil | Hot Coffee |
| 24 hr | 100% | 95% | 85% | 95% | 100% | 95% | 100% | 100% | 100% |
| 4 hour | 100% | 95% | 85% | 100% | 100% | 95% | 100% | 100% | 100% |
| 1 hour | 100% | 95% | 85% | 100% | 100% | 95% | 100% | 100% | 100% |
| 10 min. | 100% | 95% | 90% | 100% | 100% | 100% | 100% | 100% | 100% |



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TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“Iron River” Paver

| Untreated Control | | | | | | | | | |
|---|-----------|---------|---------|----------|------------------|-----------|-----------|------------|------------|
| | Coca Cola | Ketchup | Mustard | Red Wine | Balsamic Vinegar | Soy Sauce | Olive Oil | Wesson Oil | Hot Coffee |
| 24 hr | 100% | 85% | 80% | 90% | 90% | 90% | <1% | <1% | 90% |
| 4 hour | 100% | 85% | 80% | 90% | 90% | 90% | <1% | <1% | 90% |
| 1 hour | 100% | 85% | 85% | 90% | 90% | 90% | <1% | <1% | 90% |
| 10 min. | 100% | 85% | 85% | 90% | 100% | 100% | <1% | <1% | 100% |
| Stand Off® Stone, Tile, & Masonry Protector | | | | | | | | | |
| | Coca Cola | Ketchup | Mustard | Red Wine | Balsamic Vinegar | Soy Sauce | Olive Oil | Wesson Oil | Hot Coffee |
| 24 hr | 100% | 90% | 85% | 100% | 90% | 90% | 90% | 90% | 100% |
| 4 hour | 100% | 90% | 85% | 100% | 100% | 100% | 100% | 100% | 100% |
| 1 hour | 100% | 90% | 90% | 100% | 100% | 100% | 100% | 100% | 100% |
| 10 min. | 100% | 100% | 90% | 100% | 100% | 100% | 100% | 100% | 100% |
| Stand Off® SLX 100 Water & Oil Repellent | | | | | | | | | |
| | Coca Cola | Ketchup | Mustard | Red Wine | Balsamic Vinegar | Soy Sauce | Olive Oil | Wesson Oil | Hot Coffee |
| 24 hr | 100% | 100% | 85% | 100% | 100% | 100% | 100% | 100% | 100% |
| 4 hour | 100% | 100% | 85% | 100% | 100% | 100% | 100% | 100% | 100% |
| 1 hour | 100% | 100% | 95% | 100% | 100% | 100% | 100% | 100% | 100% |
| 10 min. | 100% | 100% | 95% | 100% | 100% | 100% | 100% | 100% | 100% |
| Stand Off® Impregnator | | | | | | | | | |
| | Coca Cola | Ketchup | Mustard | Red Wine | Balsamic Vinegar | Soy Sauce | Olive Oil | Wesson Oil | Hot Coffee |
| 24 hr | 100% | 100% | 75% | 100% | 100% | 100% | 75% | 75% | 100% |
| 4 hour | 100% | 100% | 100% | 100% | 100% | 100% | 75% | 75% | 100% |
| 1 hour | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| 10 min. | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |



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TEST RESULTS – STAINING REMOVAL (Continued)

% Removal

“Desert Sand” Paver

| Untreated Control | | | | | | | | | |
|---|-----------|---------|---------|----------|------------------|-----------|-----------|------------|------------|
| | Coca Cola | Ketchup | Mustard | Red Wine | Balsamic Vinegar | Soy Sauce | Olive Oil | Wesson Oil | Hot Coffee |
| 24 hr | 90% | 80% | 80% | 100% | 90% | 90% | <1% | <1% | 90% |
| 4 hour | 90% | 90% | 90% | 100% | 90% | 90% | <1% | <1% | 95% |
| 1 hour | 90% | 100% | 100% | 100% | 90% | 90% | <1% | <1% | 100% |
| 10 min. | 100% | 100% | 100% | 100% | 90% | 90% | <1% | <1% | 100% |
| Stand Off® Stone, Tile, & Masonry Protector | | | | | | | | | |
| | Coca Cola | Ketchup | Mustard | Red Wine | Balsamic Vinegar | Soy Sauce | Olive Oil | Wesson Oil | Hot Coffee |
| 24 hr | 100% | 90% | 80% | 100% | 90% | 100% | 100% | 100% | 95% |
| 4 hour | 100% | 90% | 80% | 100% | 90% | 100% | 100% | 100% | 95% |
| 1 hour | 100% | 100% | 95% | 100% | 90% | 100% | 100% | 100% | 100% |
| 10 min. | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| Stand Off® SLX 100 Water & Oil Repellent | | | | | | | | | |
| | Coca Cola | Ketchup | Mustard | Red Wine | Balsamic Vinegar | Soy Sauce | Olive Oil | Wesson Oil | Hot Coffee |
| 24 hr | 100% | 95% | 80% | 100% | 90% | 100% | 100% | 100% | 90% |
| 4 hour | 100% | 95% | 85% | 100% | 90% | 100% | 100% | 100% | 95% |
| 1 hour | 100% | 95% | 90% | 100% | 90% | 100% | 100% | 100% | 100% |
| 10 min. | 100% | 95% | 95% | 100% | 90% | 100% | 100% | 100% | 100% |
| Stand Off® Impregnator | | | | | | | | | |
| | Coca Cola | Ketchup | Mustard | Red Wine | Balsamic Vinegar | Soy Sauce | Olive Oil | Wesson Oil | Hot Coffee |
| 24 hr | 100% | 85% | 85% | 90% | 90% | 90% | <1% | <1% | 90% |
| 4 hour | 100% | 95% | 90% | 100% | 100% | 100% | <1% | <1% | 90% |
| 1 hour | 100% | 95% | 90% | 100% | 100% | 100% | <1% | <1% | 100% |
| 10 min. | 100% | 95% | 90% | 100% | 100% | 100% | <1% | <1% | 100% |



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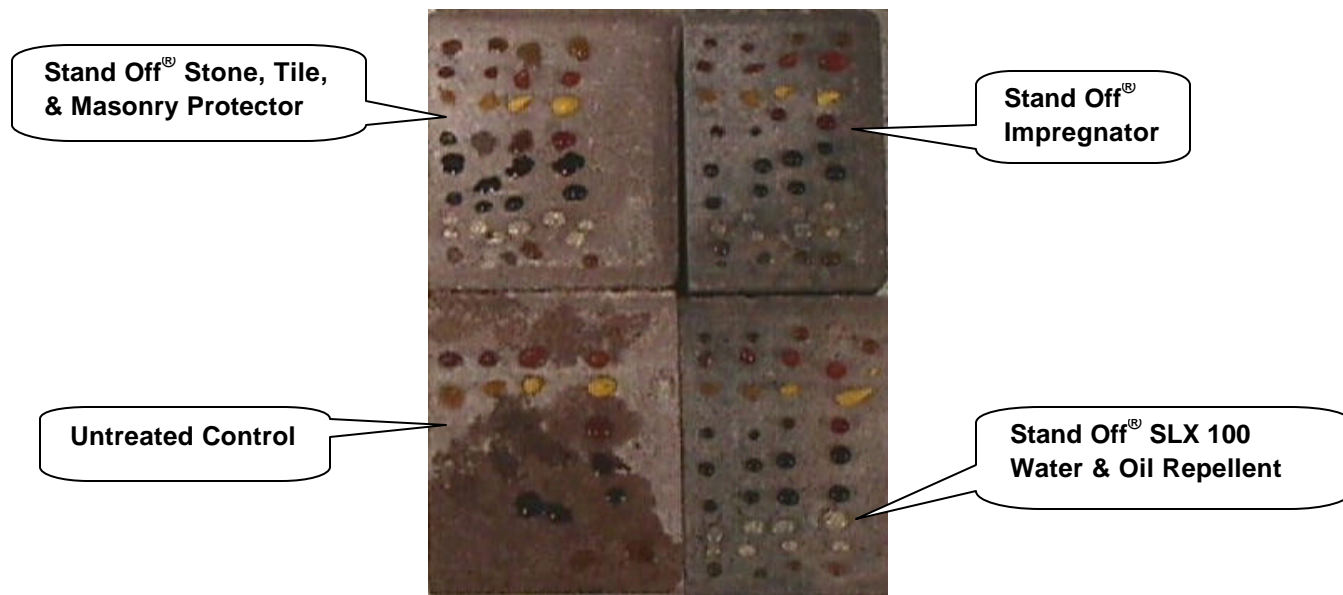


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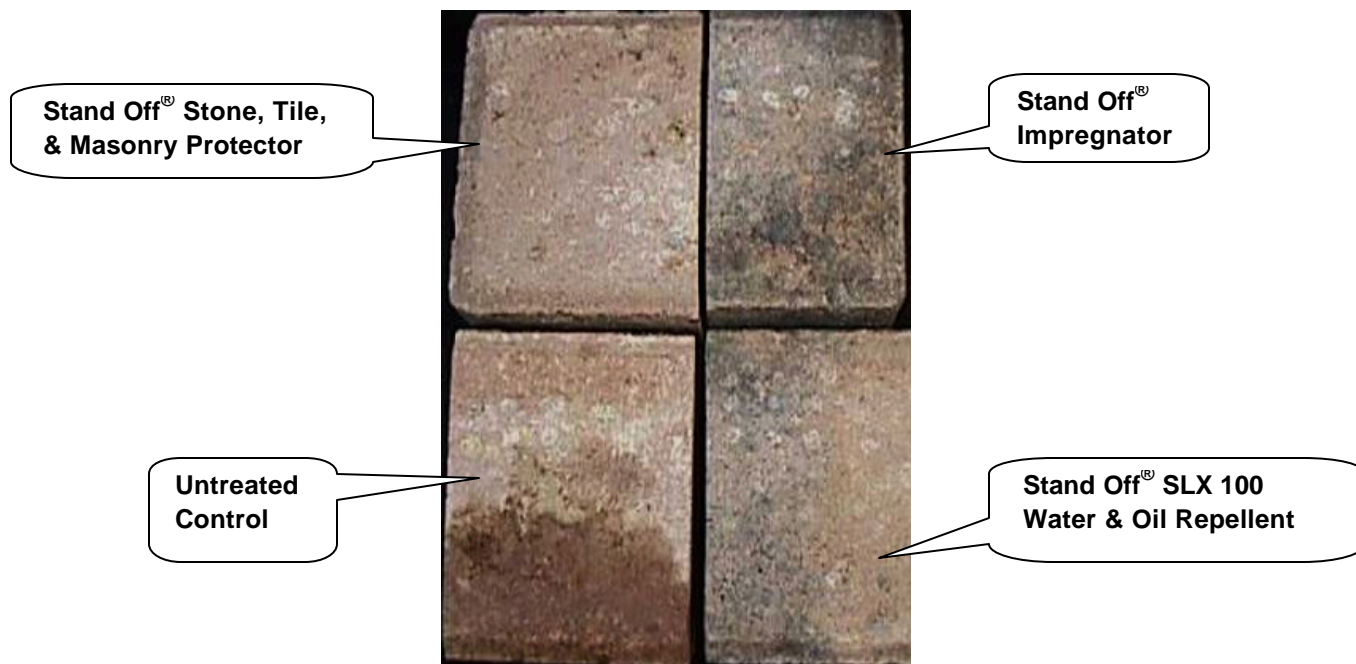
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PHOTOGRAPHS- STAIN RESULTS

"Royal Sunset" Paver- Stains applied



"Royal Sunset" Paver- Stains removed





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CONCLUSIONS – Stain Resistance

Based upon laboratory evaluations, Stand Off[®] Stone, Tile, and Masonry Protector and Stand Off[®] SLX100 Water & Oil Protection improved stain repellency on all of the submitted pavers. All three treatments improved the ability of the pavers to repel water.

RECOMMENDATIONS – Stain Resistance

Recommendations for stain resistance treatment for each type of cast-stone submitted by County Materials Corporation, Appleton, WI are provided in the charts below. Recommendations are based on the treatments that proved most effective for providing stain repellency on all types submitted.

| Paver Name | Stain Repellent | Maintenance Cleaner |
|----------------------------------|--|---|
| "Iron River" | Stand Off [®] SLX 100 Water & Oil Repellent OR Stand Off [®] Stone, Tile and Masonry Protector | Enviro Klean [®] 2010 All Surface Cleaner (1:10) |
| "Desert Sand", "Royal Sunset" | | |

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 stain repellent and cleaning product and procedure for a particular project.



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SECTION F – COLOR ENHANCEMENT:

DESCRIPTION OF PRODUCTS EVALUATED – Color Enhancement:

Sure Klean[®] Paver Enhancer – A solvent-based blend of high-quality siloxanes modified to provide excellent water repellency and color enhancement to interlocking concrete, fired clay, porous tile and many types of natural stone surfaces. Paver Enhancer penetrates and reacts with the surface to form a chemical bond, providing long-term durability, alkali resistance a superior breathability.

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

TEST METHOD – COLOR ENHANCEMENT

The color enhancing products were applied in accordance with the product recommendations.

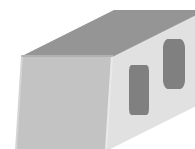
TEST RESULTS- COLOR ENHANCEMENT

| Paver Name | Sure Klean[®] Paver Enhancer | Stand Off[®] Gloss ‘N Guard | Untreated Control |
|-------------------|--|---|--------------------------|
| “Royal Sunset” | 2 | 2 | 0 |
| “Iron River” | 3 | 2 | 0 |
| “Desert Sand” | 2 | 2 | 0 |

Scale: 0- No enhancement; dull
1- Slight Enhancement
2- Moderate Enhancement
3- Significant Enhancement



PALLET TAG PROGRAM LABORATORY REPORT

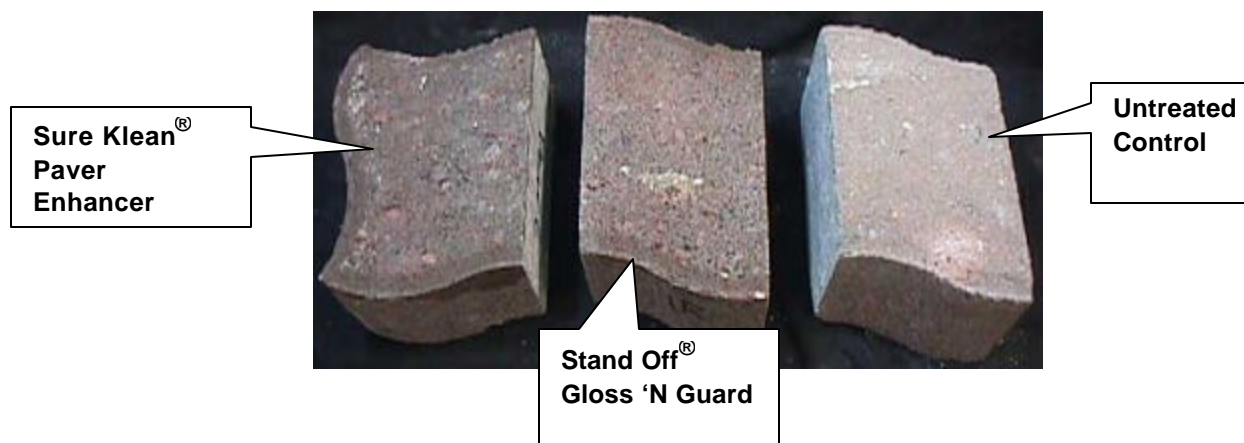


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PHOTOGRAPH COLOR ENHANCEMENT

"Iron River" Color Enhancement



RECOMMENDATIONS – COLOR ENHANCEMENT

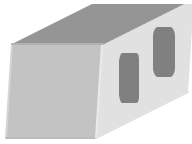
Recommendations for color enhancement for each type of paver submitted by County Materials Corporation, Appleton, WI are provided in the chart below. Recommendations are based on the treatment that proved most effective and can provide water repellency on all types submitted.

| Substrate | Color Enhancer |
|----------------------|----------------------------|
| All Submitted Pavers | Sure Klean® Paver Enhancer |

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.

Nathan R. Colaner
Technical Analyst

NRC/



Laboratory Report

Pallet Tag Program Evaluation

**County Materials Corporation
Appleton, WI**

Project No. 0304-14 PTP

Prepared For:

Perry Lee

**County Materials Corporation
3019 W. Prospect Ave.
Appleton, WI 54914**

Prepared By:



***PROSOCO, Inc.
June 2003***