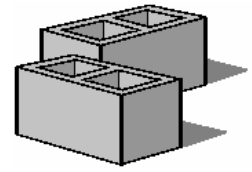




# PALLET TAG PROGRAM LABORATORY REPORT



**PROSOCO, Inc.**

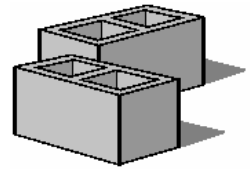
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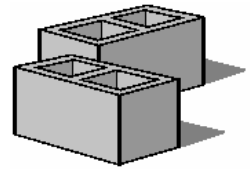
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## **ATTACHMENTS**

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



# PALLET TAG PROGRAM LABORATORY REPORT



**PROSOCO, Inc.**

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## Submitted Information

**For:** Mark O'Keefe  
**cc:** Paul Tessier  
**Subject:** Air Vol Block, Inc.  
**Date:** March 20, 2005  
**Project:** 0412-16 PTP

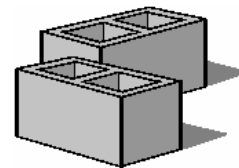
**Samples Submitted:** 5 split-face CMU's, 1 burnished CMU, and one type of concrete paver

Block	Name	Color	Integral Water Repellent	Size
Split-face CMU	"Chocolate"	Brown	None	8" x 8" x 16"
Split-face CMU	"Dark Grey"	Dark Grey	None	
Split-face CMU	"Grey"	Grey	None	
Split-face CMU	"Red"	Red	None	
Split-face CMU	"Tan"	Tan/Pink	None	
Burnished CMU	"Charcoal"	Black	None	8" x 8" x 16"
Concrete Paver	"Sandstone"	Tan	8" x 6" x 2"	8" x 6" x 2"

Submitted by: Mark O'Keefe



# PALLET TAG PROGRAM LABORATORY REPORT



PROSOCO, Inc.

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## Purpose of Testing

Five split-face integrally colored CMU's, one burnished integrally colored CMU, and one type of concrete paver integrally colored concrete blocks, all with large, small and fine aggregate were submitted for testing using PROSOCO's new construction cleaning and water repellent products. Products for graffiti control suitable for CMU's, and products for stain repellency and color enhancement suitable for concrete pavers, were also evaluated.

**Cleaning Concrete Masonry Units** – Sure Klean® Custom Masonry Cleaner, Sure Klean® Burnished Custom Masonry Cleaner and Enviro Klean® Safety Klean were evaluated on the split-face and burnished CMU's 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 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 Type S mortar staining after 3 days, 7 days, and 14 days of curing.

**Color Uniformity Testing** – Sure Klean® Custom Masonry Cleaner, Sure Klean® Burnished Custom Masonry Cleaner and Enviro Klean® Safety Klean 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 or concrete paver. 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 or concrete paver.

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

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

0 – <b>Worst</b> match to through-body	3 – <b>Good</b> match to through-body
1 – <b>Poor</b> match to through-body	4 – <b>Best</b> match to through-body
2 – <b>Fair</b> match to through-body	

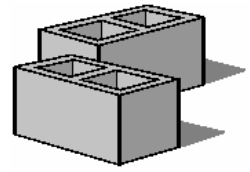
### **NOTE: When cleaning integrally colored CMU's.**

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 an 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.



# PALLET TAG PROGRAM LABORATORY REPORT



**PROSOCO, Inc.**

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**Protective Water Repellents** – Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II and Sure Klean® Weather Seal Siloxane WB Concentrate were evaluated for their ability to provide water repellency to the submitted CMU's. Consolideck® Saltguard® WB was evaluated for its ability to provide water repellency to the submitted concrete paver.

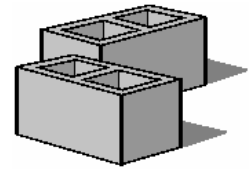
**Graffiti Control** – Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II was evaluated for its ability to control graffiti on the submitted samples. Sure Klean® Fast Acting Stripper and Defacer Eraser® Graffiti Wipe were evaluated for their ability to remove graffiti from the submitted CMU's.

**Stain Repellency** –Stand Off® Stone, Tile & Masonry Protector (STMP) and Stand Off® Stain Barrier were evaluated for their ability to repel stains.

**Color Enhancement** – ConcreteScience® SpecSeal WB-Flat and Sure Klean® Sand Joint Stabilizer were evaluated for their ability to provide color enhancement to the submitted concrete paver.



# PALLET TAG PROGRAM LABORATORY REPORT



**PROSOCO, Inc.**

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## Products Evaluated

### Products Evaluated for New Construction Cleaning and/or Color Uniformity

Block Type	Product	Dilution
All Submitted Split-face CMU's	Sure Klean® Custom Masonry Cleaner	1:2, 1:4, 1:6
Submitted Burnished CMU and Concrete Paver	Sure Klean® Burnished Custom Masonry Cleaner	1:2, 1:3
	Enviro Klean® Safety Klean	1:2, 1:3

### Water Repellent Products Evaluated

Block Type	Product	Dilution
All Submitted Split-face and Burnished CMU's	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	Concentrate
	Sure Klean® Weather Seal Siloxane WB Concentrate	1:9, 1:14
Submitted Concrete Paver	Consolideck® Saltguard® WB	Concentrate

### Graffiti Control Products Evaluated

Block Type	Product	Dilution
All Submitted Split-face and Burnished CMU's	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	Concentrate

### Graffiti Removal Products Evaluated

Block Type	Product	Dilution
All Submitted Split-face and Burnished CMU's	Sure Klean® Fast Acting Stripper	Concentrate
	Defacer Eraser® Graffiti Wipe	Concentrate

### Stain Repellent Products Evaluated

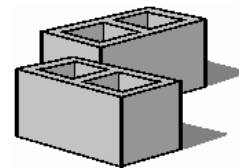
Block Type	Product	Dilution
Submitted Concrete Paver	Stand Off® Stone, Tile & Masonry Protector (STMP)	Concentrate
	Stand Off® Stain Barrier	Concentrate

### Color Enhancement Products Evaluated

Block Type	Product	Dilution
Submitted Concrete Paver	ConcreteScience® SpecSeal WB-Flat	Concentrate
	Sure Klean® Sand Joint Stabilizer	Concentrate



# PALLET TAG PROGRAM LABORATORY REPORT



## New Construction Cleaning

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

### Description of Products Evaluated – New Construction Cleaning

**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** – Removes common construction and atmospheric staining from custom masonry and other architectural concrete surfaces. This general-purpose, non-etching, acidic cleaner removes rust, mud, oil, atmospheric dirt, mortar smears and other stains without altering the surface texture. Burnished Custom Masonry Cleaner adds depth to colors and brightens white matrices and exposed aggregate.

**Enviro Klean® Safety Klean** – An effective, safe, alternative to acidic compounds for cleaning brick, tile, and concrete surfaces. Safety Klean rids new masonry construction of excess mortar, dirt and other common job site soiling. It's ideal for projects where traditional acidic cleaners are not allowed. Non-fuming Safety Klean contains no hydrochloric or other traditional inorganic acids and is safe for use on and around most metal surfaces. Always test. Additionally, it is up to 70 percent more effective than citric and glycolic acids and 50 percent more effective than phosphoric acid.

### Test Method – New Construction Cleaning

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

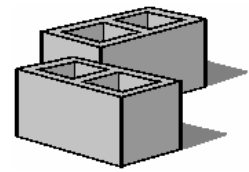
1. Pre-wet the surface with water.
2. Apply each cleaner at the appropriate dilutions.
3. Allow appropriate dwell time for each cleaner:
 

Custom Masonry Cleaner .....	3 minutes
Burnished Custom Masonry Cleaner .....	3-5 minutes
Safety Klean.....	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.



# PALLET TAG PROGRAM LABORATORY REPORT



**Test Results – New Construction Cleaning**

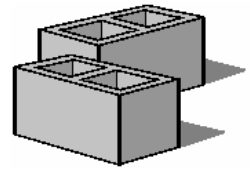
% removal

<b>“Chocolate” Split-face CMU</b>				
Product	Dilution	3 day	7 day	14 day
Custom Masonry Cleaner	1:2	100%	99%	99%
Custom Masonry Cleaner	1:4	99%	95%	95%
Custom Masonry Cleaner	1:6	95%	95%	95%
<b>“Dark Grey” Split-face CMU</b>				
Product	Dilution	3 day	7 day	14 day
Custom Masonry Cleaner	1:2	90%	90%	90%
Custom Masonry Cleaner	1:4	90%	90%	90%
Custom Masonry Cleaner	1:6	90%	90%	90%
<b>“Grey” Split-face CMU</b>				
Product	Dilution	3 day	7 day	14 day
Custom Masonry Cleaner	1:2	100%	95%	95%
Custom Masonry Cleaner	1:4	95%	95%	90%
Custom Masonry Cleaner	1:6	95%	95%	90%
<b>“Red” Split-face CMU</b>				
Product	Dilution	3 day	7 day	14 day
Custom Masonry Cleaner	1:2	95%	95%	95%
Custom Masonry Cleaner	1:4	95%	95%	95%
Custom Masonry Cleaner	1:6	95%	90%	90%
<b>“Tan” Split-face CMU</b>				
Product	Dilution	3 day	7 day	14 day
Custom Masonry Cleaner	1:2	95%	95%	95%
Custom Masonry Cleaner	1:4	95%	95%	90%
Custom Masonry Cleaner	1:6	95%	95%	90%
<b>“Charcoal” Burnished CMU</b>				
Product	Dilution	3 day	7 day	14 day
Burnished Custom Masonry Cleaner	1:2	100%	100%	100%
Burnished Custom Masonry Cleaner	1:3	100%	100%	100%
Safety Klean	1:2	100%	100%	100%
Safety Klean	1:3	100%	100%	100%





# PALLET TAG PROGRAM LABORATORY REPORT

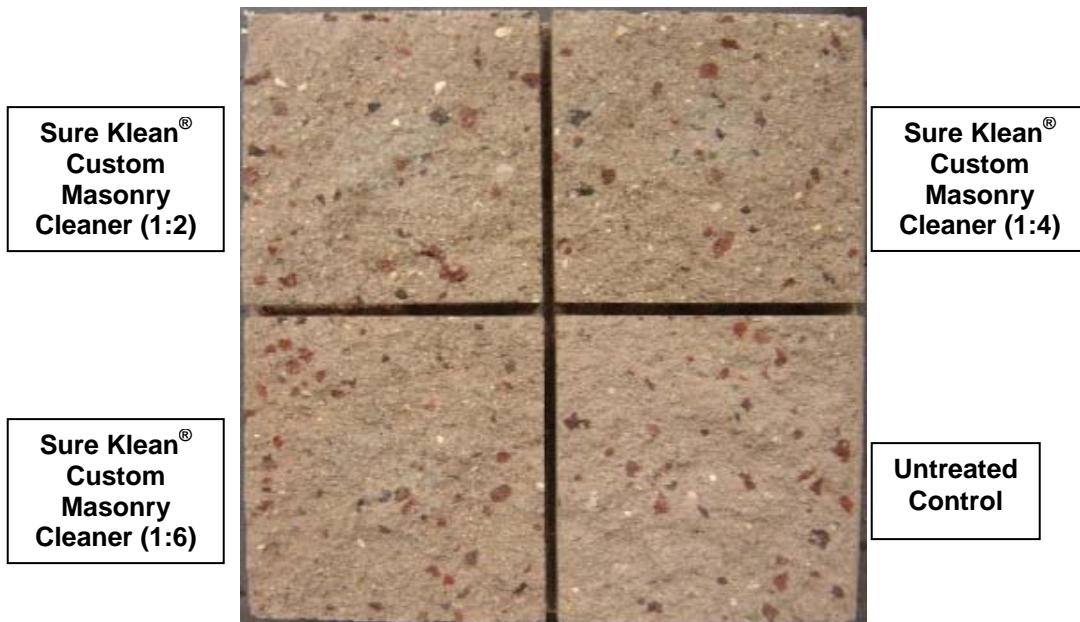


## Photographs – New Construction Cleaning

### “Chocolate” Split-face CMU; 3 Day Cleaning

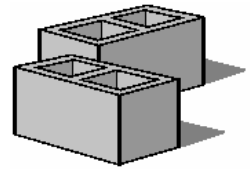


### “Chocolate” Split-face CMU; 7 Day Cleaning





# PALLET TAG PROGRAM LABORATORY REPORT



PROSOCO, Inc.

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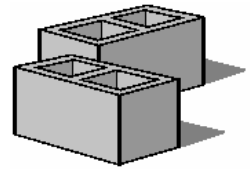
## Photographs – New Construction Cleaning

### “Chocolate” Split-face CMU; 14 Day Cleaning





# PALLET TAG PROGRAM LABORATORY REPORT



PROSOCO, Inc.

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## Photographs – New Construction Cleaning

### “Charcoal” Burnished CMU; 3 Day Cleaning



<b>Sure Klean® Burnished Custom Masonry Cleaner (1:2)</b>	<b>Sure Klean® Burnished Custom Masonry Cleaner (1:3)</b>	<b>Enviro Klean® Safety Klean (1:2)</b>	<b>Enviro Klean® Safety Klean (1:3)</b>	<b>Untreated Control</b>
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### “Charcoal” Burnished CMU; 7 Day Cleaning



<b>Sure Klean® Burnished Custom Masonry Cleaner (1:2)</b>	<b>Sure Klean® Burnished Custom Masonry Cleaner (1:3)</b>	<b>Enviro Klean® Safety Klean (1:2)</b>	<b>Enviro Klean® Safety Klean (1:3)</b>	<b>Untreated Control</b>
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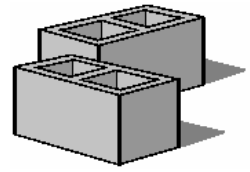
### “Charcoal” Burnished CMU; 14 Day Cleaning



<b>Sure Klean® Burnished Custom Masonry Cleaner (1:2)</b>	<b>Sure Klean® Burnished Custom Masonry Cleaner (1:3)</b>	<b>Enviro Klean® Safety Klean (1:2)</b>	<b>Enviro Klean® Safety Klean (1:3)</b>	<b>Untreated Control</b>
---	---	---	---	------------------------------



# PALLET TAG PROGRAM LABORATORY REPORT



## **Conclusions – New Construction Cleaning**

Based on the test data, all of the submitted block samples were efficiently cleaned with a dilution of the selected PROSOCO Inc. 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, Sure Klean® Burnished Custom Masonry Cleaner and Enviro Klean® Safety Klean tested affected most of the samples in a similar manner; removing slight to heavy concentrations of pigmented matrix from the CMU's, exposing small and large aggregate, and enhancing the natural appearance of the integrally colored concrete masonry unit.

## **Recommendations – New Construction Cleaning**

Recommendations for cleaning for each type of CMU submitted by Air Vol Block, Inc., San Luis Obispo, CA, are provided in the chart below. Recommendations are based on the optimum dilution for complete removal of mortar.

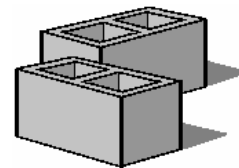
<b>Sample</b>	<b>New Construction Cleaning (Type S mortar, 14 day cleaning)</b>
All Submitted Split-face CMU's	Sure Klean® Custom Masonry Cleaner (1:2) OR (1:4) OR (1:6)
Submitted Burnished CMU	Sure Klean® Burnished Custom Masonry Cleaner (1:2) OR (1:3)  OR Enviro Klean® Safety Klean (1:2) OR (1:3)

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.



# PALLET TAG PROGRAM LABORATORY REPORT



## 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** – Removes common construction and atmospheric staining from custom masonry and other architectural concrete surfaces. This general-purpose, non-etching, acidic cleaner removes rust, mud, oil, atmospheric dirt, mortar smears and other stains without altering the surface texture. Burnished Custom Masonry Cleaner adds depth to colors and brightens white matrices and exposed aggregate.

**Enviro Klean® Safety Klean** – An effective, safe, alternative to acidic compounds for cleaning brick, tile, and concrete surfaces. Safety Klean rids new masonry construction of excess mortar, dirt and other common job site soiling. It's ideal for projects where traditional acidic cleaners are not allowed. Non-fuming Safety Klean contains no hydrochloric or other traditional inorganic acids and is safe for use on and around most metal surfaces. Always test. Additionally, it is up to 70 percent more effective than citric and glycolic acids, and 50 percent more effective than phosphoric acid.

### Test Method – Color Uniformity

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

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

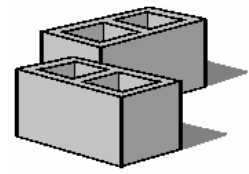
Custom Masonry Cleaner .....	3 minutes
Burnished Custom Masonry Cleaner .....	3-5 minutes
Safety Klean.....	3-5 minutes
4. Reapply the product and moderately agitate with a brush.
5. Pressure rinse thoroughly.\*
6. Allow the sample to dry for at least 18 hours and visually examine.
7. Break the sample 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.





# PALLET TAG PROGRAM LABORATORY REPORT



**Test Results – Color Uniformity**

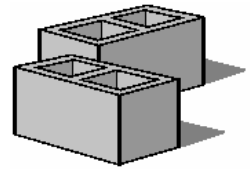
<b>Substrate: Split-face CMU</b>		<b>Pigment Color: "Chocolate"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	3
Custom Masonry Cleaner	1:4	4	3
Custom Masonry Cleaner	1:6	3	4
<b>Substrate: Split-face CMU</b>		<b>Pigment Color: "Dark Gray"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	3
Custom Masonry Cleaner	1:4	4	3
Custom Masonry Cleaner	1:6	3	4
<b>Substrate: Split-face CMU</b>		<b>Pigment Color: "Gray"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	3
Custom Masonry Cleaner	1:4	4	3
Custom Masonry Cleaner	1:6	3	4
<b>Substrate: Split-face CMU</b>		<b>Pigment Color: "Red"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	3
Custom Masonry Cleaner	1:4	4	3
Custom Masonry Cleaner	1:6	3	4
<b>Substrate: Split-face CMU</b>		<b>Pigment Color: "Tan"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Custom Masonry Cleaner	1:2	4	3
Custom Masonry Cleaner	1:4	4	3
Custom Masonry Cleaner	1:6	3	4
<b>Substrate: Burnished CMU</b>		<b>Pigment Color: "Charcoal"</b>	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Burnished Custom Masonry Cleaner	1:2	4	4
Burnished Custom Masonry Cleaner	1:3	4	4
Safety Klean	1:2	4	4
Safety Klean	1:3	4	4

Scale used for reporting results of both categories

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



# PALLET TAG PROGRAM LABORATORY REPORT



PROSOCO, Inc.

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## Test Results – Color Uniformity (Continued)

Substrate: Concrete Paver		Pigment Color: "Sandstone"	
Product	Dilution	Aggregate Exposure	Surface Pigment Alteration/Removal
Burnished Custom Masonry Cleaner	1:2	3	4
Burnished Custom Masonry Cleaner	1:3	3	4
Safety Klean	1:2	3	4
Safety Klean	1:3	3	4

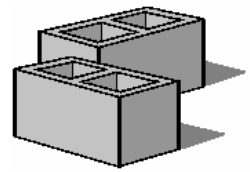
Scale used for reporting results of both categories

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



# PALLET TAG PROGRAM LABORATORY REPORT



## Photographs – Color Uniformity

“Chocolate” Split-face CMU; Through-body



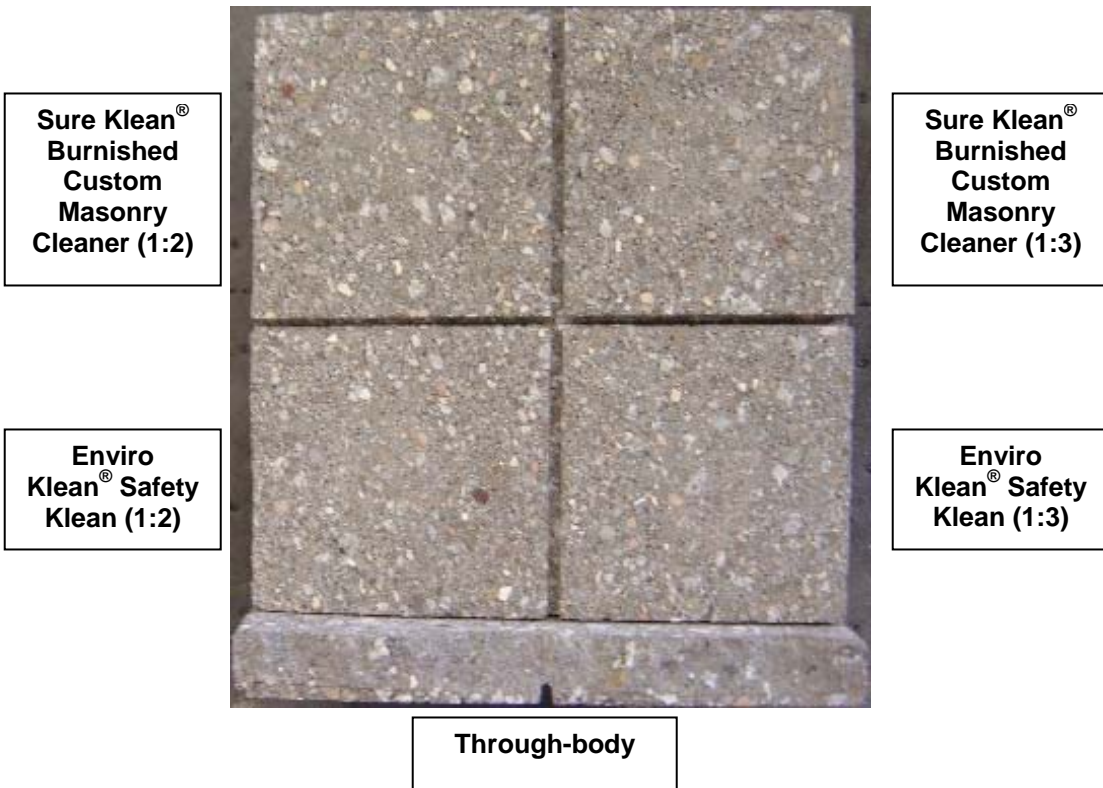
Sure Klean®  
Custom  
Masonry  
Cleaner (1:2)

Sure Klean®  
Custom  
Masonry  
Cleaner (1:4)

Sure Klean®  
Custom  
Masonry  
Cleaner (1:6)

Through-  
body

“Charcoal” Burnished CMU; Through-body



Sure Klean®  
Burnished  
Custom  
Masonry  
Cleaner (1:2)

Sure Klean®  
Burnished  
Custom  
Masonry  
Cleaner (1:3)

Enviro  
Klean® Safety  
Klean (1:2)

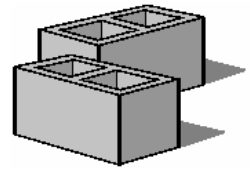
Enviro  
Klean® Safety  
Klean (1:3)

Through-body





# PALLET TAG PROGRAM LABORATORY REPORT



PROSOCO, Inc.

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## Photographs – Color Uniformity

“Sandstone” Concrete Paver; Through-body



Enviro Klean®  
Safety Klean  
(1:2)

Enviro Klean®  
Safety Klean  
(1:3)

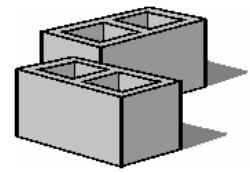
Sure Klean®  
Burnished  
Custom  
Masonry  
Cleaner (1:2)

Sure Klean®  
Burnished  
Custom  
Masonry  
Cleaner (1:3)

Through-  
body



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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's and concrete pavers.

## **Recommendations – Color Uniformity**

Recommendations for color uniformity for each type of CMU and concrete paver submitted by Air Vol Block, Inc., San Luis Obispo, CA, are provided in the chart below. Recommendations are based on the optimum dilution that provides the best color uniformity.

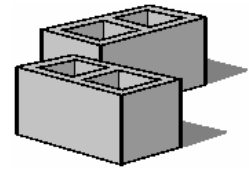
<b>Sample</b>	<b>Color Uniformity</b>
All Submitted Split-face CMU's	Sure Klean® Custom Masonry Cleaner (1:2) OR (1:4) OR (1:6)
Submitted Burnished CMU	Sure Klean® Burnished Custom Masonry Cleaner (1:2) OR (1:3) OR Enviro Klean® Safety Klean (1:2) OR (1:3)
Submitted Concrete Paver	Sure Klean® Burnished Custom Masonry Cleaner (1:2) OR (1:3) OR Enviro Klean® Safety Klean (1:2) OR (1:3)

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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## 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

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## Description of Products Evaluated – Protective Water Repellents

**Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II** – A clear-drying, water-based silicone emulsion for weatherproofing concrete block and other porous masonry materials. Blok-Guard® & Graffiti Control II also protects masonry surfaces from graffiti attacks without altering the natural appearance. Blok-Guard® & Graffiti Control II protects exterior walls exposed to normal weathering. Graffiti removal from treated surfaces is fast and easy using Defacer Eraser® Graffiti Wipe. Blok-Guard® & Graffiti Control II is easy to apply with low-pressure spray, brush or roller.

**Sure Klean® Weather Seal Siloxane 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 alkoxy siloxanes mixes easily with water to produce a penetrating water repellent ideal for application to dense or porous masonry surfaces.

**Consolideck® 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.

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## Sample Preparation – Protective Water Repellents

The submitted samples 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 in accordance with the recommendations in the PROSOCO, Inc. product guide.

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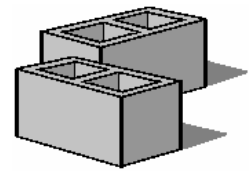
## Test Methods – Protective Water Repellents

### **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.



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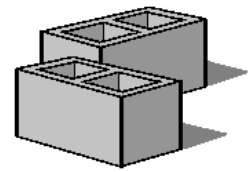
## Test Results – Protective Water Repellents

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

<b>RESULTS</b>	
"Chocolate" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard® & Graffiti Control II	58 mph
Siloxane WB 1:9	58 mph
Siloxane WB 1:14	56 mph
"Dark Grey" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard® & Graffiti Control II	57 mph
Siloxane WB 1:9	49 mph
Siloxane WB 1:14	49 mph
"Grey" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard® & Graffiti Control II	59 mph
Siloxane WB 1:9	59 mph
Siloxane WB 1:14	58 mph
"Red" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard® & Graffiti Control II	59 mph
Siloxane WB 1:9	59 mph
Siloxane WB 1:14	59 mph
"Tan" Split-face CMU	
Untreated Control	<40 mph
Blok-Guard® & Graffiti Control II	58 mph
Siloxane WB 1:9	58 mph
Siloxane WB 1:14	56 mph
"Charcoal" Burnished CMU	
Untreated Control	<40 mph
Blok-Guard® & Graffiti Control II	60 mph
Siloxane WB 1:9	60 mph
Siloxane WB 1:14	59 mph
"Sandstone" Concrete Paver	
Untreated Control	<40 mph
Saltguard® WB	60 mph



# PALLET TAG PROGRAM LABORATORY REPORT

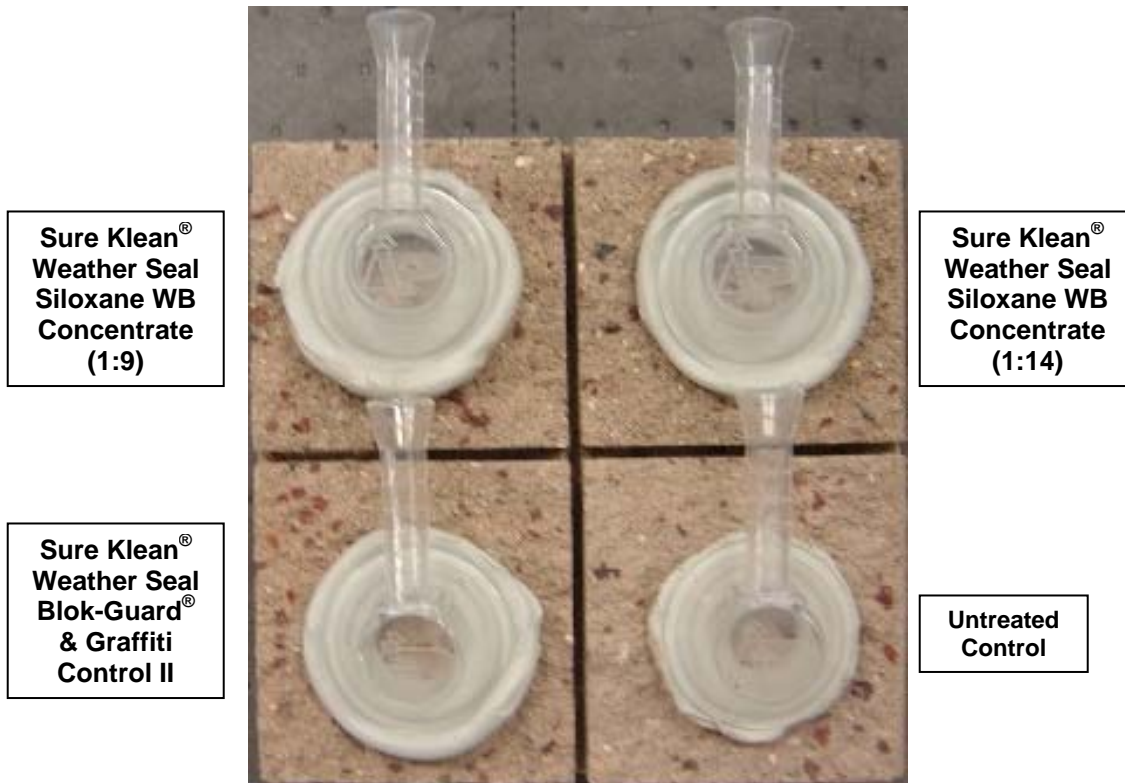


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## Photographs – Protective Water Repellents

### “Chocolate” Split-face CMU; RILEM Testing

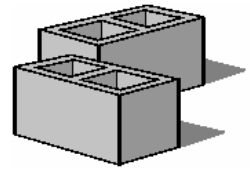


### “Sandstone” Concrete Paver; RILEM Testing





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## **Conclusions – Protective Water Repellents**

Based upon laboratory evaluations, at least one of the PROSOCO, Inc. products tested provided above average water repellency to each of the submitted samples. In addition, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II provided slight color enhancement to the submitted CMU's. None of the other treatments altered the appearance of the samples in any way.

## **Recommendations – Protective Water Repellents**

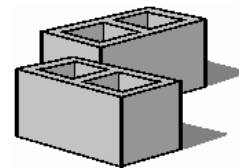
Recommendations for water repellency treatment for each type of CMU and concrete paver submitted by Air Vol Block, Inc., San Luis Obispo, CA, are provided in the chart below. Recommendations are based on the treatment that proved most effective and can provide water repellency on all types submitted.

<b>Sample</b>	<b>Water Repellents</b>
"Chocolate" "Grey" "Red" "Tan" "Charcoal"	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II OR Sure Klean® Weather Seal Siloxane WB Concentrate (1:9), (1:14)
"Dark Grey"	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II
"Sandstone" Concrete Paver	Consolideck® Saltguard® WB

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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PROSOCO, Inc.

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## **Graffiti Control**

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

### **Description of Products Evaluated – Graffiti Control**

#### **Graffiti Control Treatments**

**Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II** – A clear-drying, water-based silicone emulsion for weatherproofing concrete block and other porous masonry materials. Blok-Guard® & Graffiti Control II also protects masonry surfaces from graffiti attacks without altering the natural appearance. Blok-Guard® & Graffiti Control II protects exterior walls exposed to normal weathering. Graffiti removal from treated surfaces is fast and easy using Defacer Eraser® Graffiti Wipe. Blok-Guard® & Graffiti Control II is easy to apply with low-pressure spray, brush or roller.

#### **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, split-face concrete block, wood and metal surfaces.

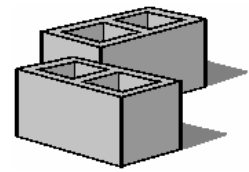
**Sure Klean® Fast Acting Stripper** – A thixotropic stripping compound formulated specifically for removal of high strength paints and coatings such as epoxies, polyurethanes, and floor enamels. Additionally, Fast Acting Stripper dissolves most spray paints, marking pens, lacquers and other graffiti.

#### **Graffiti Agents**

Interior/Exterior Spray Paint (Red)  
Permanent Marker (Green)  
Permanent Marker (Red)  
Permanent Marker (Black)



# PALLET TAG PROGRAM LABORATORY REPORT



## **Sample Preparation – Graffiti Control**

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

Sections of the concrete block samples were treated with Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II, 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 II. Removal of the graffiti agents was attempted 24 hours after application of the graffiti agents, using either Defacer Eraser® Graffiti Wipe 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:
 

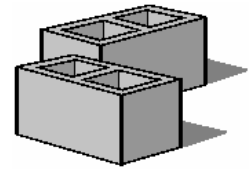
Graffiti Wipe .....	5 minutes
Fast Acting Stripper .....	.20 minutes
3. Pressure rinse thoroughly until water runs clear. \*
4. Allow the surface to dry thoroughly and visually examine to determine effectiveness.

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





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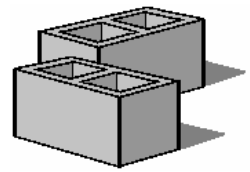


**Test Results – Graffiti Control**

“Chocolate” 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	30%	60%	70%	85%	61%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	95%	80%	95%	91%
Graffiti Wipe	90%	85%	80%	85%	85%
“Dark Grey” Split-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	80%	95%	80%	80%	84%
Graffiti Wipe	80%	85%	80%	80%	81%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	100%	80%	95%	91%
Graffiti Wipe	90%	100%	80%	90%	90%
“Grey” Split-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	90%	80%	80%	85%
Graffiti Wipe	60%	60%	80%	80%	70%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	80%	95%	93%
Graffiti Wipe	95%	100%	80%	95%	93%
“Red” Split-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	90%	95%	90%	95%	93%
Graffiti Wipe	90%	80%	90%	95%	89%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	95%	100%	98%
Graffiti Wipe	95%	95%	95%	100%	96%
“Tan” Split-face CMU					
Untreated Control	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	85%	95%	80%	85%	86%
Graffiti Wipe	50%	90%	80%	80%	75%
Blok-Guard® & Graffiti Control II	Red Paint	Black Marker	Green Marker	Red Marker	% Avg. Removal
Fast Acting Stripper	95%	100%	90%	95%	95%
Graffiti Wipe	90%	95%	85%	90%	90%



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PROSOCO, Inc.

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## Photographs – Graffiti Control

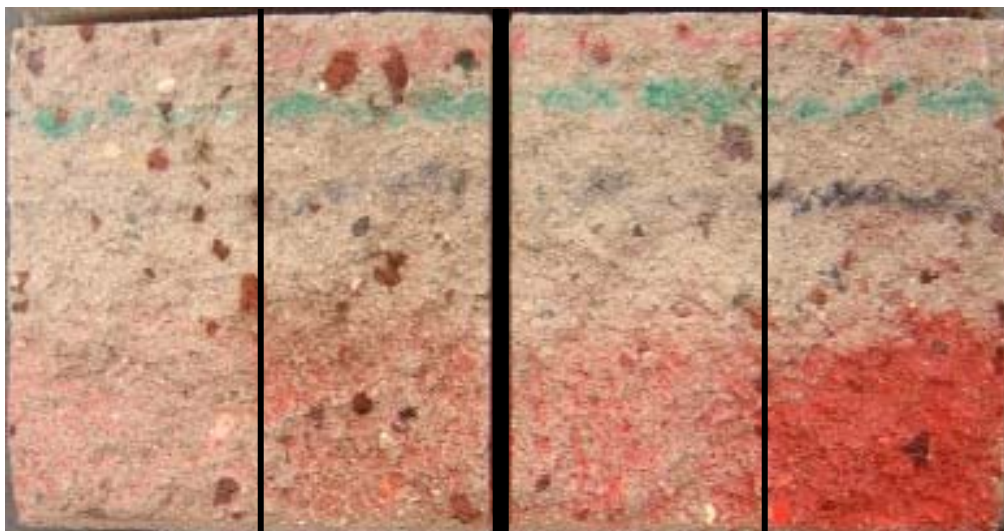
“Chocolate” Split-face CMU; Graffiti Applied



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

Untreated Control

“Chocolate” Split-face CMU; Graffiti Removed



Sure Klean® Fast  
Acting Stripper

Defacer Eraser®  
Graffiti Wipe

Sure Klean® Fast  
Acting Stripper

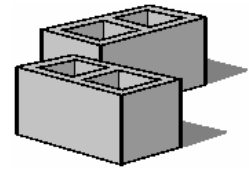
Defacer Eraser®  
Graffiti Wipe

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

Untreated Control



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## **Conclusions – Graffiti Control**

Based upon laboratory evaluations, graffiti removal was improved when the submitted samples were treated with Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II prior to graffiti application. In addition, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II provided a slight color enhancement to the submitted samples.

## **Recommendations – Graffiti Control**

Recommendations for graffiti control treatment for each type of block submitted by Air Vol Block, Inc., San Luis Obispo, CA, 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
All Submitted Split-face and Burnished CMU's	Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	Sure Klean® Fast Acting Stripper OR Defacer Eraser® Graffiti Wipe

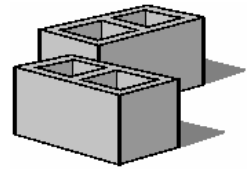
Apply all products in accordance with the manufacturer's recommendation provided on container labels and product data sheets. Because the severity of graffiti varies from location to location, on-site testing should be conducted to determine the most appropriate graffiti control product and procedure 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 is recommended for job-site testing. See product literature for additional application and product information.

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.



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## Stain Repellency

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

### Description of Products Evaluated – Stain Repellency

#### Stain Repellent Treatments

**Stand Off® Stone, Tile & Masonry Protector (STMP)** – A penetrating oil and stain repellent that is an 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® Stain Barrier** – A penetrating water, oil and stain repellent. This easy-to-use, low-VOC, low-odor protective treatment improves stain resistance and simplifies maintenance cleaning of interior and exterior stone, quarry tile, concrete and masonry surfaces. Surfaces treated with Stain Barrier resist staining from oil, food and waterborne matter while retaining their natural color, texture, and breatheability.

#### Maintenance Cleaner

**Enviro Klean® 2010 All Surface Cleaner** – A “next-generation” product for cleaning and degreasing light-to-heavily soiled stone, tile, masonry and much more. Powerful enough for industrial use, flexible enough for jobs around the home, space-saving EK 2010 replaces a host of individual cleaning agents. It is suitable for home-use on windows, bathroom tub and tile, counter tops and more when diluted with water. It's concentrated enough for the toughest industrial cleaning jobs on concrete, metal and many other plant and warehouse surfaces. EK 2010 also removes Sure Klean® Weather Seal Siloxane PD overspray from windows.

### Staining Agents Evaluated

#### Kitchen Products

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	(~250°F)
Coffee	(~120°F)

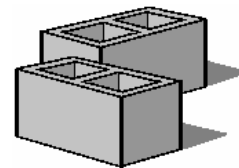
#### Temperature

### Sample Preparation – Stain Repellency

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 followed the current PROSOCO, Inc. Product Guide.



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## Test Method – Stain Repellency

### 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 globular fashion and therefore are not evaluated for their beading properties.**

### Rating System (1-5)

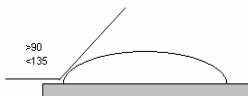
1. No wetting of contact area (no darkening); angle less than  $90^\circ$



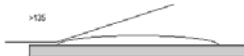
2. Wetting contained to the contact area (slight darkening); angle is less than  $90^\circ$



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



4. Wetting beyond the contact area (darkening); angle is greater than  $135^\circ$



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

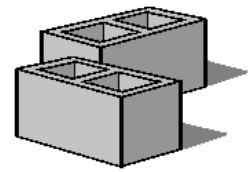


### Stain Removal Evaluation

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<sup>®</sup> 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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**Test Results – Surface Beading**

<b>“Sandstone” Concrete Paver</b>									
	Coco-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee
<b>Untreated Control</b>	5	-	-	5	5	5	5	5	5
<b>STMP</b>	2	-	-	2	2	2	3	3	2
<b>Stain Barrier</b>	2	-	-	2	3	3	3	3	2

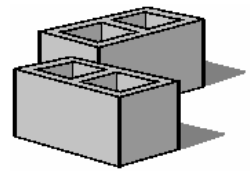
**Test Results – Stain Repellency**

<b>“Sandstone” Concrete Paver</b>										
<b>Untreated Control</b>										
	Coca-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee	
<b>24 hr</b>	100%	100%*	95%*	100%	100%	100%	<1%	<1%	100%	
<b>4 hour</b>	100%	100%*	100%*	100%	100%	100%	<1%	<1%	100%	
<b>1 hour</b>	100%	100%*	100%*	100%	100%	100%	<1%	<1%	100%	
<b>10 min.</b>	100%	100%*	100%*	100%	100%	100%	<1%	<1%	100%	
<b>Stand Off® Stone, Tile &amp; Masonry Protector (STMP)</b>										
	Coca-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee	
<b>24 hr</b>	100%	100%	100%*	100%	100%	100%	100%	100%	100%	100%
<b>4 hour</b>	100%	100%	100%*	100%	100%	100%	100%	100%	100%	100%
<b>1 hour</b>	100%	100%	100%*	100%	100%	100%	100%	100%	100%	100%
<b>10 min.</b>	100%	100%	100%*	100%	100%	100%	100%	100%	100%	100%
<b>Stand Off® Stain Barrier</b>										
	Coca-Cola	Ketchup	Mustard	Red Wine	Balsamic Vinegar	Soy Sauce	Olive Oil	Wesson Oil	Hot Coffee	
<b>24 hr</b>	100%	100%	100%*	100%	100%	100%	100%	100%	100%	100%
<b>4 hour</b>	100%	100%	100%*	100%	100%	100%	100%	100%	100%	100%
<b>1 hour</b>	100%	100%	100%*	100%	100%	100%	100%	100%	100%	100%
<b>10 min.</b>	100%	100%	100%*	100%	100%	100%	100%	100%	100%	100%

\*Indicates etching occurred from the acidic nature of the staining agents.



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## Photographs – Stain Repellency

### “Sandstone” Concrete Paver; Stains Applied



Stand Off® Stone,  
Tile & Masonry  
Protector (STMP)

Stand Off® Stain  
Barrier

Untreated  
Control

### “Sandstone” Concrete Paver; Stains Removed



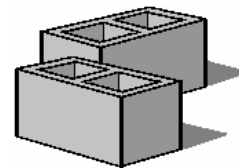
Stand Off® Stone,  
Tile & Masonry  
Protector (STMP)

Stand Off® Stain  
Barrier

Untreated  
Control



# PALLET TAG PROGRAM LABORATORY REPORT



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## **Conclusions – Stain Repellency**

Based upon laboratory evaluations, all of the treatments tested improved the surface beading of the submitted paver. In addition, all of the treatments were effective in repelling the staining agents from the paver.

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## **Recommendations – Stain Repellency**

Recommendations for stain resistance treatment for the concrete paver submitted by Air Vol Block, Inc., San Luis Obispo, CA, are provided in the chart below. Recommendations are based on the treatments that proved most effective for providing stain repellency on the submitted concrete pavers.

<b>Sample</b>	<b>Stain Repellent</b>	<b>Maintenance Cleaner</b>
"Sandstone" Concrete Paver	Stand Off <sup>®</sup> Stone, Tile & Masonry Protector (STMP) OR Stand Off <sup>®</sup> Stain Barrier	Enviro Klean <sup>®</sup> 2010 All Surface Cleaner (1:10)

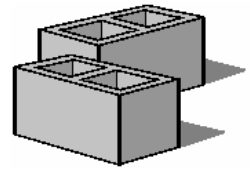
The ability of a stain repellent treatment to prevent staining is affected by a variety of factors. Therefore, on-site testing should be carried out for all installations with the recommended systems to ensure job site workmanship yields equivalent results.

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 stain repellent product and procedures for a particular project. See product literature for additional application and product information.





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## Color Enhancement

### Description of Products Evaluated – Color Enhancement

**ConcreteScience® SpecSeal WB-Flat** – A stabilized styrene acrylic co-polymer-based curing, sealing, compound. It's tough, chemical resistant, long lasting and non-yellowing. A surface coated with SpecSeal WB-Flat will bead water much like a freshly waxed car. The product is effective on vertical and horizontal, exterior and interior, above- and below-grade architectural concrete and masonry.

Easily applied SpecSeal WB-Flat quickly forms a hard clear film that is permanent, tough, chemical resistant, waterproof, dust proof, and non-yellowing VOC compliance. Independent lab analysis confirms that the product's non-yellowing characteristics outlast and outperform competitive products and equal the performance of pure acrylic systems.

**Sure Klean® Sand Joint Stabilizer** – A durable, blended polymer which controls erosion of loose sand joints commonly employed with interlocking concrete pavers, clay pavers, natural stone or decorative concrete paving. Sand Joint Stabilizer also consolidates loose sand joints and protects treated paving from water penetration and related staining. Loose laid paved surfaces treated with Sand Joint Stabilizer resist weed growth and are easier to maintain.

Sand Joint Stabilizer's water-based formula offers several improvements on similar solvent-based products. No solvent odor, easy soap-and-water cleanup, and reduced fire-hazard make the treatment safe and easy to use, as well as effective. In addition, Sand Joint Stabilizer complies with all known regulations limiting Volatile Organic Compound (VOC) content.

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### Sample Preparation – Color Enhancement

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.

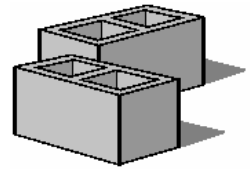
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### Test Method – Color Enhancement

The color enhancing products were applied by brush in accordance with the application instructions in the current PROSOCO, Inc. Product Guide.



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## Test Results – Color Enhancement

Paver Name	ConcreteScience® SpecSeal WB-Flat	Sure Klean® Sand Joint Stabilizer
"Sandstone"	3	3

Scale: 0- No enhancement; dull

1- Slight Enhancement

2- Moderate Enhancement

3- Significant Enhancement

## Photographs – Color Enhancement

"Sandstone" Concrete Paver; Color Enhancement Treatments Applied



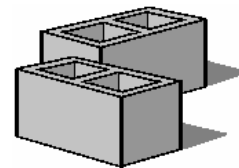
Untreated  
Control

ConcreteScience®  
SpecSeal WB-Flat

Sure Klean® Sand  
Joint Stabilizer



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## Recommendations – Color Enhancement

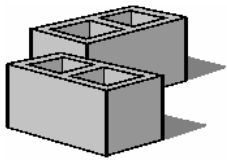
Recommendations for color enhancement for the concrete paver submitted by Air Vol Block, Inc., San Luis Obispo, CA, are provided in the chart below. Recommendations are based on the treatment that proved most effective in providing color enhancement to the submitted paver.

Sample	Color Enhancement
"Sandstone" Concrete Paver	ConcreteScience® SpecSeal WB-Flat OR Sure Klean® Sand Joint Stabilizer

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.

Christopher A. Moore  
Project Testing Laboratory Technician

CAM



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***Laboratory Report***

**Pallet Tag Program Evaluation**

**Air Vol Block, Inc.  
San Luis Obispo, CA**

***Project No. 0412-16 PTP***

***Prepared For:***

**Air Vol Block, Inc.  
1 Suburban Road  
San Luis Obispo, CA 93406**

***Prepared By:***



***PROSOCO, Inc.  
March 2005***