



# PALLET CARD PROGRAM LABORATORY REPORT



PROSOCO, Inc.

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## SECTION F – COLOR ENHANCEMENT

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

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

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

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### **DESCRIPTIONS OF PRODUCT EVALUATED – Color Enhancement**

**Sure Klean® Weather Seal Blok-Guard® & Graffiti Control** – A clear, solvent-based silicone elastomer formulated to weatherproof custom masonry units, cast stone, and concrete block without altering the natural appearance. Blok-Guard® & Graffiti Control penetrates and fills pores to prevent water penetration through exterior walls exposed to normal weathering as well as long-lasting protection against many types of graffiti.

**Stand Off® 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. Penetrates and reacts with the surface to form a chemical bond, provided long-term durability, alkali resistance and superior breathability.

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### **SAMPLE PREPARATION – Color Enhancement**

The submitted samples were allowed to dry, and reabsorb atmospheric humidity for 24 hours prior to treatment. Method of treatment consisted of a wet-on-wet brush application for Sure Klean® Weather Seal Blok-Guard® & Graffiti Control and one saturating application for Stand Off® Paver Enhancer. All treatments were allowed to cure at least 72 hours prior to testing.

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### **TEST METHODS – Color Enhancement**

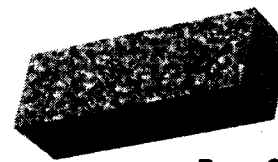
Color enhancement is evaluated visually based on the appearance of the treatment applied. This includes color changes and/or darkening.

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

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



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**Test Results – Color Enhancement**

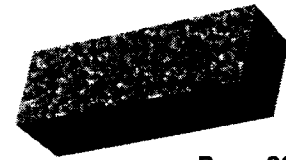
<b>“Wisconsin Castle Rock (Gray Buff)”</b>	
<b>Treatment</b>	<b>Enhancement</b>
Untreated Control	0
Blok-Guard® & Graffiti Control	4
Paver Enhancer	3
<b>“Wisconsin Castle Rock (Full Color)”</b>	
<b>Treatment</b>	<b>Enhancement</b>
Untreated Control	0
Blok-Guard® & Graffiti Control	4
Paver Enhancer	3
<b>“Chilton Rustic”</b>	
<b>Treatment</b>	<b>Enhancement</b>
Untreated Control	0
Blok-Guard® & Graffiti Control	2
Paver Enhancer	2
<b>“Chilton Country Squire”</b>	
<b>Treatment</b>	<b>Enhancement</b>
Untreated Control	0
Blok-Guard® & Graffiti Control	4
Paver Enhancer	4
<b>“Fond du Lac Castle Rock”</b>	
<b>Treatment</b>	<b>Enhancement</b>
Untreated Control	0
Blok-Guard® & Graffiti Control	4
Paver Enhancer	4
<b>“Fond du Lac Rustic”</b>	
<b>Treatment</b>	<b>Enhancement</b>
Untreated Control	0
Blok-Guard® & Graffiti Control	2
Paver Enhancer	2
<b>“Fond du Lac Country Squire”</b>	
<b>Treatment</b>	<b>Enhancement</b>
Untreated Control	0
Blok-Guard® & Graffiti Control	4
Paver Enhancer	2

Scale used for reporting results:

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



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## CONCLUSIONS – Color Enhancement

Based upon laboratory evaluations, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control was most effective at providing color enhancement. Stand Off® Paver Enhancer also enhanced the color of the dolomitic limestone veneer samples, but to a much lesser degree than the Sure Klean® Weather Seal Blok-Guard® & Graffiti Control.

**NOTE:** See Attachment #2 "PHOTO C".

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## RECOMMENDATIONS – COLOR ENHANCEMENT

Based on evaluations, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control and Stand Off® Paver Enhancer can be recommended for job-site testing to provide color enhancement to the samples submitted by Buechel Stone Corporation, Chilton, WI.

Apply all products in accordance with the manufacturer's recommendation provided on container labels and product data sheets. On-site testing should be conducted to determine the most appropriate color enhancing product and procedures for a particular project. See product literature for additional application and product information.

Jason L. Anderson  
Materials Testing Technician

JLA/

# STANDOFF®

# Paver Enhancer

color intensifier for concrete

## DESCRIPTION AND USE

Stand Off® Paver Enhancer is 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.

### ADVANTAGES

- Provides excellent color enhancement.
- Controls rainwater penetration through hard-to-seal surfaces.
- Helps control efflorescence, and moisture- and traffic-related staining.
- Simplifies cleaning.
- Low odor

### Limitations

- Not suitable for extremely dense or asphaltic surfaces.
- Not recommended for below-grade applications.
- Will not prevent water penetration through structural cracks, defects or open joints.

## TECHNICAL DATA

ACTIVE CONTENT: 20%  
 FORM: Clear liquid, mild petroleum odor  
 SPECIFIC GRAVITY: 0.871  
 FLASH POINT: 102°F ASTM (D 3278)  
 WT. / GAL. : 7.25 lbs.  
 VOC Content = 693 g/L

## PREPARATION

Protect people, vehicles, property, plants, painted surfaces, metal, anodized aluminum and all nonmasonry surfaces from product, rinse, residue, fumes, splash and wind drift. Use polyethylene or other tested protective material. Sure Klean® Strippable Masking is not appropriate for use with this product. Protect and/or divert pedestrian and auto traffic.

### Surface Preparation

Surface should be clean, dry and absorbent. If cleaning is necessary, use the appropriate Stand Off® cleaner. (Do not use raw acids.) Let cleaned surfaces dry completely. Let newly constructed and repointed surfaces cure for 28 days before application. Sealing and caulking compounds should be in place and cured before application.

### Surface & Air Temperatures

If freezing conditions exist before application, let masonry thaw. Surface and air temperatures should be 40°F - 90°F during application. Higher temperatures evaporate solvent carrier and reduce penetration.

### Equipment

Apply with brush, roller or low-pressure spray (20 psi) . Fit spray equipment with stainless steel or brass fittings and gaskets suitable for solvent solutions. Fan spray tips are recommended to avoid atomizing the material. Use nylon brushes and rollers or other synthetic solvent-resistant material.

## APPLICATION

Before use, read "Preparation" and "Safety Information."

**ALWAYS TEST** each type of surface for suitability and results before overall application. Test using the following

Paver Enhancer is recommended for these substrates. Coverage estimates are in square feet/liters per gallon.

Substrate	Type	Use?	Coverage
Architectural Concrete Block	Smooth	no	N/A
	Split-faced	no	
	Burnished	no	
	Ribbed	no	
Concrete	Brick	yes	100- 150 sq. ft. 9- 14 sq. m.
	Tile	no	
	Precast Panels	no	
	Pavers	yes	
Fired Clay	Cast-in-place	yes	100- 150 sq. ft. 9- 14 sq. m.
	Brick	yes	
	Tile	yes	
	Terra Cotta Pavers	yes	
Marble, Travertine, Limestone	Polished	no	N/A
	Unpolished	no	N/A
Granite*	Polished	no	N/A
	Unpolished	yes	200- 250 sq. ft. 18- 23 sq. m.
Sandstone	Unpolished	yes	100- 150 sq. ft. 9- 14 sq. m.
Slate	Unpolished	yes	150- 200 sq. ft. 14- 18 sq. m.

\*May not be suitable for some dense surfaces. Always test for desired results. Coverage estimates depend on surface texture and porosity.

application instructions. Let test dry thoroughly before inspection. **Note:** Extremely porous pavers need 2 coats. See "Second Coat Application."

**Use in concentrate. DO NOT DILUTE OR ALTER. Stir or mix well before use.**

#### **Spray Application (Horizontal Surfaces)**

Apply in a single, saturating application. Use enough to keep the surface wet for 2 to 3 minutes before penetrating. Lightly broom out puddles. Use clean absorbent towels to pick up excess material that doesn't immediately penetrate. Overapplication, surface buildup or prolonged puddling can cause discoloration.

#### **Spray Application (Vertical Surfaces)**

Thoroughly saturate the surface. Use enough for a rundown of 6-8 inches below the spray pattern. Brush out heavy runs and drips.

#### **Brush or Roller Application**

Saturate the surface. Avoid excessive overlapping. Brush out runs and drips to avoid buildup.

**Note:** On dense natural stone, use a soft cloth or lamb's wool. Let Paver Enhancer penetrate for 2 to 5 minutes. Wipe up excess.

#### **Second Coat Application**

Some highly porous surfaces may need 2 applications of Stand Off® Paver Enhancer for uniform color enhancement. Apply the second application when the first coat is dry to touch.

Protect treated surfaces from rain for at least 2 hours after application. Protect horizontal surfaces from foot and vehicle traffic for 4 to 6 hours following application. Provide cross-ventilation and fresh air to interior spaces for at least 8 hours following application. Paver Enhancer has full repellency in 72 hours.

#### **Coverage**

Coverage rates vary from 75 to 250 sq. ft. / gal., depending on surface texture and porosity. Second coat coverage will be 20% to 50% greater than the first coat. For best results, follow coverage rates determined by testing.

**Note:** Some floor and wall systems incorporate asphaltic or other crack-suppression membranes. This deeply penetrative protective treatment may penetrate through exposed stone, tile, grout, or paver surfaces and react with the membrane to mobilize objectionable staining. **ALWAYS PRETEST TO ENSURE DESIRED RESULTS.**

#### **Clean Up**

Clean tools and equipment immediately with mineral spirits or an equivalent cleaning solvent. Remove overspray, spills, etc., as soon as possible.

#### **Maintenance**

Remove spills or stains from surfaces treated with Paver Enhancer using water or Stand Off® Rinseless Cleaner. For severe stains, use Stand Off® All Surface Cleaner or Stand Off® Oil & Grease Stain Remover.

## **SAFETY INFORMATION**

**DANGER & POISON  
COMBUSTIBLE LIQUID AND VAPOR  
MAY BE FATAL OR CAUSE BLINDNESS IF  
SWALLOWED**

**FOR USE BY PROFESSIONAL APPLICATORS ONLY  
Keep Out of the Reach of Children**

#### **Precautionary Measures**

Cannot be made nonpoisonous. **Contains:** Organosilane, mineral spirits, 1, 2, 4-Trimethylbenzene, petroleum ether and methyl alcohol. Vapor harmful. May affect the brain or nervous system causing dizziness, headache, or nausea. Causes eye, skin and respiratory irritation.

**Combustible liquid and vapor.** Keep away from heat, sparks and flame. Vapors may travel along the ground or by ventilation to remote ignition sources. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Use appropriate, spark-proof equipment during transfer and application. Do not cut, grind, weld, or drill on or near this container, even if empty.

**Use only with adequate ventilation.** Do not breathe vapors or mist. Ensure fresh air entry and cross ventilation during application and drying. When applying to exteriors of occupied buildings, make sure all windows, exterior intakes and air conditioning vents are covered and air handling equipment are shut down during application and remain so until vapors have dissipated. Avoid exposing passersby and building occupants to product, fumes and mists. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, increase ventilation and/or wear an appropriate, properly fitted, NIOSH-approved respirator. Avoid contact with eyes, skin and clothing. Wear safety glasses and gloves to prevent contact. Additional protection may be required depending on application methods. Wash after handling. Refer to the MSDS for additional precautionary information. Always read product label thoroughly before use.

**NOTICE:** Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### **First Aid**

**Ingestion:** Aspiration Hazard. If swallowed, immediately call a physician, emergency room or poison control center for

instruction on safely inducing vomiting. If vomiting occurs, keep head below waist to prevent entry of liquid into lungs.

**Eye Contact:** Rinse eyes thoroughly for 15 minutes. Get medical assistance if irritation persists.

**Skin Contact:** Rinse thoroughly. Get medical attention if irritation persists.

**Inhalation:** Remove to fresh air. Give artificial respiration if not breathing. Get immediate medical attention.

**24 Hour Emergency Information: INFOTRAC at 1-800-535-5053**

**Spills:** Eliminate sources of ignition. Wear appropriate personal protective equipment and respirator. Use spark proof equipment. Keep product away from soil, sewer systems and surface and ground water. Contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

**Container Disposal:** This container is hazardous when empty. Since empty containers retain product residue, all labeled hazard precautions must be observed. Do not cut, puncture or weld on or near this container. Do not reuse container or remove the label. Drain thoroughly and dispose of in a sanitary landfill (check local restrictions) or send to a properly licensed reconditioner.

**Storage and Handling:** Store this container in a cool, dry place with adequate ventilation. Keep away from heat and open flames. Keep container tightly sealed when not dispensing. Do not use pressure to empty. Do not atomize during application. **Do not alter or dilute** the product or use for purposes other than those specified.

**Shelf Life:** 1 year from the date of manufacture in tightly sealed, unopened container.

VOC Content =693 g/L. Product is reformulated to reduce odor and improve user safety. Manufactured and marketed in compliance with USEPA VOC regulations (40 CFR 59.403).

## WARRANTY

The information and recommendations made are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation encountered in masonry surfaces, job conditions and methods used. The purchasers shall make their own tests to determine the suitability of such products for a particular purpose.

PROSOCO Inc. warrants this product to be free from defects. **Where permitted by law, PROSOCO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of merchantability or fitness for particular purpose.** The purchaser shall be responsible to make his own tests to determine the suitability of this product for his particular purpose. PROSOCO's liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which defective product has been applied. Acceptance and use of this product absolves PROSOCO from any other liability, from whatever source, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability. This warranty may not be modified or extended by representatives of PROSOCO, its distributors or dealers.

## CUSTOMER CARE

Factory personnel are available for product, environment and job- safety assistance with no obligation. Call 800-255-4255 and ask for Customer Care - technical support.

Factory-trained representatives are established in principal cities throughout the continental United States. Call Customer Care at 800-255-4255, or visit our web site at [www.prosoco.com](http://www.prosoco.com) for the name of the Stand Off® representative in your area.