



AMT Laboratories
 3741 Greenway Circle
 Lawrence, KS 66046
 Phone: 888.376.3600
 Fax: 785.830.9176

Red River Concrete Products
Project No. 0606-15 PTP

Eleven types of concrete pavers were submitted to AMT Laboratories by PROSOCO, Inc. with a request to determine the optimal concentration of cleaner for removal of laboratory applied mortar. Additionally, the effectiveness of water repellents, stain repellents and color and sheen enhancement products suitable for concrete pavers was evaluated. **New Construction Cleaning** was performed to evaluate the effectiveness of the selected PROSOCO products at removing excess Type S Mortar and related new construction soiling. **Protective Water Repellent** testing was performed to evaluate which PROSOCO water repellent(s) are most effective at providing protection from wind driven rain. **Stain Repellency** testing was conducted to determine which PROSOCO product(s) are most effective at repelling and facilitating the removal of stains. **Color and Sheen Enhancement** was evaluated to determine which PROSOCO product(s) are most effective at providing color and/or sheen enhancement to the submitted samples.

The attached report provides information about the PROSOCO products tested and descriptions of the test methods. The report includes test results as well as conclusions and recommendations. Recommendations are also provided in the chart below.

Recommendations

Sample	New Construction Cleaning Type S Mortar, 14 Day Cleaning	Protective Water Repellents	Stain Repellency	Color and Sheen Enhancement
“Beige Blend”	Paver Kare® Cleaner/Brightener (1:2) OR (1:3) OR Sure Klean® Custom Masonry Cleaner (1:6)	*Paver Kare® Paver Enhancer OR Paver Kare® Penetrating Water Repellent OR Stand Off® SLX100 Water & Oil Repellent	<u>Stain Repellents</u> Stand Off® Stone, Tile & Masonry Protector (STMP) <u>Maintenance Cleaner</u> Enviro Klean® 2010 All Surface Cleaner (1:10)	<u>Color Enhancement</u> *Paver Kare® Paver Enhancer OR *Stand Off® Gloss ‘N Guard OR *Paver Kare® Deep Sheen <u>Sheen Enhancement</u> *Paver Kare® Deep Sheen OR Paver Kare® Deep Sheen WB
“Burley”	Paver Kare® Cleaner/Brightener (1:2) OR (1:3) OR Sure Klean® Custom Masonry Cleaner (1:6)	*Paver Kare® Paver Enhancer OR Paver Kare® Penetrating Water Repellent OR Stand Off® SLX100 Water & Oil Repellent	<u>Stain Repellents</u> Stand Off® Stone, Tile & Masonry Protector (STMP) <u>Maintenance Cleaner</u> Enviro Klean® 2010 All Surface Cleaner (1:10)	<u>Color Enhancement</u> *Paver Kare® Paver Enhancer OR *Stand Off® Gloss ‘N Guard OR *Paver Kare® Deep Sheen <u>Sheen Enhancement</u> *Paver Kare® Deep Sheen OR Paver Kare® Deep Sheen WB

Sample	New Construction Cleaning Type S Mortar, 14 Day Cleaning	Protective Water Repellents	Stain Repellency	Color and Sheen Enhancement
“Cumberland Blend”	Paver Kare® Cleaner/Brightener (1:2) OR (1:3) OR Sure Klean® Custom Masonry Cleaner (1:6)	*Paver Kare® Paver Enhancer OR Paver Kare® Penetrating Water Repellent OR Stand Off® SLX100 Water & Oil Repellent	<u>Stain Repellents</u> Stand Off® Stone, Tile & Masonry Protector (STMP) <u>Maintenance Cleaner</u> Enviro Klean® 2010 All Surface Cleaner (1:10)	<u>Color Enhancement</u> *Paver Kare® Paver Enhancer OR *Stand Off® Gloss ‘N Guard OR *Paver Kare® Deep Sheen <u>Sheen Enhancement</u> Paver Kare® Deep Sheen WB
“Gray”	Paver Kare® Cleaner/Brightener (1:2) OR (1:3) OR Sure Klean® Custom Masonry Cleaner (1:6)	*Paver Kare® Paver Enhancer OR Paver Kare® Penetrating Water Repellent OR Stand Off® SLX100 Water & Oil Repellent	<u>Stain Repellents</u> Stand Off® Stone, Tile & Masonry Protector (STMP) <u>Maintenance Cleaner</u> Enviro Klean® 2010 All Surface Cleaner (1:10)	<u>Color Enhancement</u> *Paver Kare® Paver Enhancer OR *Stand Off® Gloss ‘N Guard OR *Paver Kare® Deep Sheen <u>Sheen Enhancement</u> Paver Kare® Deep Sheen WB
“Gray Blend”	Paver Kare® Cleaner/Brightener (1:2) OR (1:3) OR Sure Klean® Custom Masonry Cleaner (1:6)	*Paver Kare® Paver Enhancer OR Paver Kare® Penetrating Water Repellent OR Stand Off® SLX100 Water & Oil Repellent	<u>Stain Repellents</u> Stand Off® Stone, Tile & Masonry Protector (STMP) <u>Maintenance Cleaner</u> Enviro Klean® 2010 All Surface Cleaner (1:10)	<u>Color Enhancement</u> *Paver Kare® Paver Enhancer OR *Stand Off® Gloss ‘N Guard OR *Paver Kare® Deep Sheen <u>Sheen Enhancement</u> Paver Kare® Deep Sheen WB

Sample	New Construction Cleaning Type S Mortar, 14 Day Cleaning	Protective Water Repellents	Stain Repellency	Color and Sheen Enhancement
“Pewter Blend”	Paver Kare® Cleaner/Brightener (1:2) OR (1:3) OR Sure Klean® Custom Masonry Cleaner (1:6)	*Paver Kare® Paver Enhancer OR Paver Kare® Penetrating Water Repellent OR Stand Off® SLX100 Water & Oil Repellent	<u>Stain Repellents</u> Stand Off® SLX100 Water & Oil Repellent <u>Maintenance Cleaner</u> Enviro Klean® 2010 All Surface Cleaner (1:10)	<u>Color Enhancement</u> *Paver Kare® Paver Enhancer OR *Stand Off® Gloss ‘N Guard OR *Paver Kare® Deep Sheen <u>Sheen Enhancement</u> Paver Kare® Deep Sheen WB
“Red”	Paver Kare® Cleaner/Brightener (1:2) OR (1:3) OR Sure Klean® Custom Masonry Cleaner (1:6)	*Paver Kare® Paver Enhancer OR Paver Kare® Penetrating Water Repellent OR Stand Off® SLX100 Water & Oil Repellent	<u>Stain Repellents</u> Stand Off® Stone, Tile & Masonry Protector (STMP) <u>Maintenance Cleaner</u> Enviro Klean® 2010 All Surface Cleaner (1:10)	<u>Color Enhancement</u> *Paver Kare® Paver Enhancer OR *Stand Off® Gloss ‘N Guard OR *Paver Kare® Deep Sheen <u>Sheen Enhancement</u> *Stand Off® Gloss ‘N Guard OR *Paver Kare® Deep Sheen OR Paver Kare® Deep Sheen WB
“Red Blend”	Paver Kare® Cleaner/Brightener (1:2) OR (1:3) OR Sure Klean® Custom Masonry Cleaner (1:6)	*Paver Kare® Paver Enhancer OR Paver Kare® Penetrating Water Repellent OR Stand Off® SLX100 Water & Oil Repellent	<u>Stain Repellents</u> Stand Off® Stone, Tile & Masonry Protector (STMP) <u>Maintenance Cleaner</u> Enviro Klean® 2010 All Surface Cleaner (1:10)	<u>Color Enhancement</u> *Paver Kare® Paver Enhancer OR *Stand Off® Gloss ‘N Guard OR *Paver Kare® Deep Sheen <u>Sheen Enhancement</u> Paver Kare® Deep Sheen WB

Sample	New Construction Cleaning Type S Mortar, 14 Day Cleaning	Protective Water Repellents	Stain Repellency	Color and Sheen Enhancement
“Red River Blend”	Paver Kare® Cleaner/Brightener (1:2) OR (1:3) OR Sure Klean® Custom Masonry Cleaner (1:6)	*Paver Kare® Paver Enhancer OR Paver Kare® Penetrating Water Repellent OR Stand Off® SLX100 Water & Oil Repellent	<p align="center"><u>Stain Repellents</u></p> Stand Off® SLX100 Water & Oil Repellent OR Stand Off® Stone, Tile & Masonry Protector (STMP) <p align="center"><u>Maintenance Cleaner</u></p> Enviro Klean® 2010 All Surface Cleaner (1:10)	<p align="center"><u>Color Enhancement</u></p> *Paver Kare® Paver Enhancer OR *Stand Off® Gloss ‘N Guard OR *Paver Kare® Deep Sheen <p align="center"><u>Sheen Enhancement</u></p> Paver Kare® Deep Sheen WB
“Slate”	Paver Kare® Cleaner/Brightener (1:2) OR (1:3) OR Sure Klean® Custom Masonry Cleaner (1:6)	*Paver Kare® Paver Enhancer OR Paver Kare® Penetrating Water Repellent OR Stand Off® SLX100 Water & Oil Repellent	<p align="center"><u>Stain Repellents</u></p> Stand Off® Stone, Tile & Masonry Protector (STMP) <p align="center"><u>Maintenance Cleaner</u></p> Enviro Klean® 2010 All Surface Cleaner (1:10)	<p align="center"><u>Color Enhancement</u></p> *Paver Kare® Paver Enhancer OR *Stand Off® Gloss ‘N Guard OR *Paver Kare® Deep Sheen <p align="center"><u>Sheen Enhancement</u></p> Paver Kare® Deep Sheen WB
“Warioto Blend”	Paver Kare® Cleaner/Brightener (1:2) OR (1:3) OR Sure Klean® Custom Masonry Cleaner (1:6)	*Paver Kare® Paver Enhancer OR Paver Kare® Penetrating Water Repellent OR Stand Off® SLX100 Water & Oil Repellent	<p align="center"><u>Stain Repellents</u></p> Stand Off® SLX100 Water & Oil Repellent OR Stand Off® Stone, Tile & Masonry Protector (STMP) <p align="center"><u>Maintenance Cleaner</u></p> Enviro Klean® 2010 All Surface Cleaner (1:10)	<p align="center"><u>Color Enhancement</u></p> *Paver Kare® Paver Enhancer OR *Stand Off® Gloss ‘N Guard OR *Paver Kare® Deep Sheen <p align="center"><u>Sheen Enhancement</u></p> Paver Kare® Deep Sheen WB

***NOTE:** Paver Kare® Paver Enhancer, Stand Off® Gloss ‘N Guard, and Paver Kare® Deep Sheen are manufactured and marketed in compliance with USEPA AIM VOC regulations (40 CFR 59.403). These products may not be suitable for sale in states and districts with more restrictive AIM VOC regulations.

Apply all products in accordance with the manufacturer’s recommendations provided on container labels and product data sheets. On-site testing should be conducted to determine the most appropriate cleaning, water repellent, or stain repellent products and procedures for a particular project. See product literature for additional application and safety information.



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Five types of concrete brick, all with large, small and fine aggregate were submitted for testing to AMT Laboratories by PROSOCO, Inc. to determine the optimal concentration of cleaner for complete removal of mortar and related new construction soiling which also leaves the external surface looking most like the uncleaned surface of the concrete brick. The effectiveness of protective water repellents and graffiti control suitable for concrete brick was also evaluated. **New Construction Cleaning** was performed to evaluate the effectiveness of the selected PROSOCO products at removing excess Type S Mortar, and related new construction soiling, while limiting potential surface alterations to the decorative finish. **Protective Water Repellent** testing was performed to evaluate which PROSOCO water repellent(s) are most effective at providing protection from wind driven rain. **Graffiti Control** products were evaluated for its ability to repel and remove graffiti from the submitted samples.

Recommendations

Sample	New Construction Cleaning Type S Mortar (14 Day Cleaning)	Protective Water Repellents	Graffiti Control
“Autumn Fire”	Sure Klean® Concrete Brick Cleaner (1:2) OR (1:3) OR Sure Klean® Custom Masonry Cleaner (1:6)	*Sure Klean® Custom Masonry Sealer OR Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II OR Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	<u>Graffiti Repellents</u> *Sure Klean® Custom Masonry Sealer OR Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II <u>Graffiti Removal</u> Sure Klean® Fast Acting Stripper OR Defacer Eraser® Graffiti Wipe
“Desert Storm”	Sure Klean® Concrete Brick Cleaner (1:2) OR (1:3) OR Sure Klean® Custom Masonry Cleaner (1:6)	*Sure Klean® Custom Masonry Sealer OR Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II OR Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	<u>Graffiti Repellents</u> *Sure Klean® Custom Masonry Sealer OR Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II <u>Graffiti Removal</u> Sure Klean® Fast Acting Stripper OR Defacer Eraser® Graffiti Wipe
“Red Clay”	Sure Klean® Concrete Brick Cleaner (1:2) OR (1:3) OR Sure Klean® Custom Masonry Cleaner (1:6)	*Sure Klean® Custom Masonry Sealer OR Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II OR Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	<u>Graffiti Repellents</u> *Sure Klean® Custom Masonry Sealer OR Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II <u>Graffiti Removal</u> Sure Klean® Fast Acting Stripper OR Defacer Eraser® Graffiti Wipe

Sample	New Construction Cleaning Type S Mortar (14 Day Cleaning)	Protective Water Repellents	Graffiti Control
"Red River"	Sure Klean® Concrete Brick Cleaner (1:2) OR (1:3) OR Sure Klean® Custom Masonry Cleaner (1:6)	*Sure Klean® Custom Masonry Sealer OR Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II OR Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	<p align="center"><u>Graffiti Repellents</u> *Sure Klean® Custom Masonry Sealer OR Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II</p> <p align="center"><u>Graffiti Removal</u> Sure Klean® Fast Acting Stripper OR Defacer Eraser® Graffiti Wipe</p>
"Smoke"	Sure Klean® Concrete Brick Cleaner (1:2) OR (1:3) OR Sure Klean® Custom Masonry Cleaner (1:6)	*Sure Klean® Custom Masonry Sealer OR Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II OR Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	<p align="center"><u>Graffiti Repellents</u> *Sure Klean® Custom Masonry Sealer OR Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II</p> <p align="center"><u>Graffiti Removal</u> Sure Klean® Fast Acting Stripper OR Defacer Eraser® Graffiti Wipe</p>

***NOTE:** Sure Klean® Custom Masonry Sealer is manufactured and marketed in compliance with USEPA AIM VOC regulations (40 CFR 59.403). This product may not be suitable for sale in states and districts with more restrictive AIM VOC regulations.

Apply all products in accordance with the manufacturer’s recommendations provided on container labels and product data sheets. On-site testing should be conducted to determine the most appropriate cleaning, water repellent, or stain repellent products and procedures for a particular project. See product literature for additional application and safety information.