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**Overview of Testing Conducted By PROSOCO, Inc.
Edwards Cast Stone Company, Dubuque, IA
Project No. 0507-18**

Six types of cast stone were submitted to PROSOCO, Inc.'s Testing Laboratory with a request to determine if application of the products evaluated will produce any surface alteration during new construction cleaning operations. Additionally, the effectiveness of water repellents, graffiti control products and stain repellents suitable for precast concrete were evaluated. Removal of staining caused by markers used for in-plant labeling was also evaluated. **New construction cleaning** was performed to evaluate effective removal of excess mortar, and related new construction soiling. **Protective Water Repellent** testing was performed to evaluate water repellency provided by PROSOCO's water repellents. **Graffiti Control** testing was evaluated to determine which PROSOCO product(s) are most effective at repelling and facilitating the removal of graffiti. **Stain Repellent** testing was conducted to determine which PROSOCO product(s) are most effective at repelling and facilitating the removal of stains. **In-Plant Marker Removal** was evaluated for its ability to successfully remove the markers chosen for in-plant labeling of the submitted "DC23" sample.

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 | Graffiti Repellency | Stain Repellent |
|--------|---|--|--|---|
| "DC19" | Sure Klean® Vana Trol® (1:6) OR (1:8) OR Sure Klean® 600 Detergent (1:6) OR (1:8) | Sure Klean® Weather Seal Blok-Guard® & Graffiti Control OR Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) OR (1:14) OR Stand Off® SLX100 Water & Oil Repellent | Sure Klean® Weather Seal Blok-Guard® & Graffiti Control <u>Graffiti Removal</u> Sure Klean® Fast Acting Stripper OR Defacer Eraser® Graffiti Wipe | Stand Off® SLX100 Water & Oil Repellent <u>Maintenance Cleaner</u> Enviro Klean® 2010 All Surface Cleaner (1:10) |
| "DC31" | Sure Klean® Vana Trol® (1:6) OR (1:8) OR Sure Klean® 600 Detergent (1:6) OR (1:8) | Sure Klean® Weather Seal Blok-Guard® & Graffiti Control OR Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) OR (1:14) OR Stand Off® SLX100 Water & Oil Repellent | Sure Klean® Weather Seal Blok-Guard® & Graffiti Control <u>Graffiti Removal</u> Sure Klean® Fast Acting Stripper OR Defacer Eraser® Graffiti Wipe | Stand Off® SLX100 Water & Oil Repellent <u>Maintenance Cleaner</u> Enviro Klean® 2010 All Surface Cleaner (1:10) |

| Sample | New Construction Cleaning Type S mortar (14 Day Cleaning) | Protective Water Repellents | Graffiti Repellency | Stain Repellent |
|---|--|---|--|--|
| "WC1090" | Sure Klean® Vana Trol® (1:6) OR (1:8) OR Sure Klean® 600 Detergent (1:6) OR (1:8) OR Sure Klean® Burnished Custom Masonry Cleaner (1:2) OR (1:3) | Sure Klean® Weather Seal Blok- Guard® & Graffiti Control OR Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) OR (1:14) OR Stand Off® SLX100 Water & Oil Repellent | Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Graffiti Removal Sure Klean® Fast Acting Stripper OR Defacer Eraser® Graffiti Wipe | Stand Off® SLX100 Water & Oil Repellent Maintenance Cleaner Enviro Klean® 2010 All Surface Cleaner (1:10) |
| "WC32" | Sure Klean® Vana Trol® (1:6) OR (1:8) OR Sure Klean® 600 Detergent (1:6) | Sure Klean® Weather Seal Blok- Guard® & Graffiti Control OR Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) OR (1:14) OR Stand Off® SLX100 Water & Oil Repellent | Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Graffiti Removal Sure Klean® Fast Acting Stripper OR Defacer Eraser® Graffiti Wipe | Stand Off® SLX100 Water & Oil Repellent Maintenance Cleaner Enviro Klean® 2010 All Surface Cleaner (1:10) |
| "WC7219" | Sure Klean® Vana Trol® (1:6) OR (1:8) OR Sure Klean® 600 Detergent (1:6) OR (1:8) | Sure Klean® Weather Seal Blok- Guard® & Graffiti Control OR Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) OR (1:14) OR Stand Off® SLX100 Water & Oil Repellent | Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Graffiti Removal Sure Klean® Fast Acting Stripper OR Defacer Eraser® Graffiti Wipe | Stand Off® SLX100 Water & Oil Repellent Maintenance Cleaner Enviro Klean® 2010 All Surface Cleaner (1:10) |
| "DC23" In-Plant Marker Removal | | | In-Plant Marker Removal Defacer Eraser® Graffiti Wipe | |

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.