



Pallet Tag Program Laboratory Report

ProVia
Sugar creek, OH



Project No. 2401-06 PTP

Prepared For:



PROSOCO

Prepared By:

J. Lucas Comadoll

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Chemist
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April 2024



Laboratory Report

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SUBJECT: ProVia
Sugarcreek, OH
Pallet Tag Evaluation

DATE: April 12, 2024
PROJECT: 2401-06 PTP

SAMPLES SUBMITTED: Thirty-nine types of manufactured stone veneers

Type	Profile	Name	Color	Size
Manufactured Stone Veneer	Chisel Cut	"Brindle"	Buff	Various Sizes
Manufactured Stone Veneer	Chisel Cut	"Olympus"	Gray	Various Sizes
Manufactured Stone Veneer	Chisel Cut	"Silverlake"	Gray/White	Various Sizes
Manufactured Stone Veneer	Chisel Cut	"Wellington"	Buff	Various Sizes
Manufactured Stone Veneer	Dry Stack	"Catawba"	Brown	Various Sizes
Manufactured Stone Veneer	Dry Stack	"Chestnut"	Buff	Various Sizes
Manufactured Stone Veneer	Dry Stack	"Ottawa"	Buff	Various Sizes
Manufactured Stone Veneer	Dry Stack	"Whisperwood"	Gray	Various Sizes
Manufactured Stone Veneer	Edge Cut	"Beech"	Buff	Various Sizes
Manufactured Stone Veneer	Edge Cut	"Obsidian"	Black	Various Sizes
Manufactured Stone Veneer	Edge Cut	"Polar"	White	Various Sizes
Manufactured Stone Veneer	Edge Cut	"Tundra"	Gray	Various Sizes
Manufactured Stone Veneer	Fieldstone	"Pennsylvania"	Dark Green	Various Sizes
Manufactured Stone Veneer	Fieldstone	"Shenandoah"	Brown	Various Sizes
Manufactured Stone Veneer	Fieldstone	"Strathmore"	Buff	Various Sizes

SAMPLES SUBMITTED: (cont.)

Type	Profile	Name	Color	Size
Manufactured Stone Veneer	Ledgestone	“Mystic”	Gray/White	Various Sizes
Manufactured Stone Veneer	Ledgestone	“Osage”	Buff	Various Sizes
Manufactured Stone Veneer	Ledgestone	“Oxford”	Gray	Various Sizes
Manufactured Stone Veneer	Ledgestone	“Rushmore”	Gray/Orange	Various Sizes
Manufactured Stone Veneer	Limestone	“Allegheny”	Brown	Various Sizes
Manufactured Stone Veneer	Limestone	“Blue Ridge”	Gray	Various Sizes
Manufactured Stone Veneer	Limestone	“Ohio Vintage”	Buff	Various Sizes
Manufactured Stone Veneer	Limestone	“Vail”	White	Various Sizes
Manufactured Stone Veneer	Natural Cut	“Alta”	Gray/White	Various Sizes
Manufactured Stone Veneer	Natural Cut	“Ashworth”	Brown	Various Sizes
Manufactured Stone Veneer	Natural Cut	“Fernwood”	Gray	Various Sizes
Manufactured Stone Veneer	Precisionfit	“Adobe Sands”	Buff	Various Sizes
Manufactured Stone Veneer	Precisionfit	“Arctic”	White	Various Sizes
Manufactured Stone Veneer	Precisionfit	“Driftwood”	Brown	Various Sizes
Manufactured Stone Veneer	Precisionfit	“Onyx”	Black	Various Sizes
Manufactured Stone Veneer	Ridge Cut	“Castle Rock”	Gray	Various Sizes
Manufactured Stone Veneer	Ridge Cut	“Denali”	Buff/White	Various Sizes
Manufactured Stone Veneer	Ridge Cut	“Yosemite”	Buff	Various Sizes
Manufactured Stone Veneer	River Rock	“Michigan”	Dark Green	Various Sizes
Manufactured Stone Veneer	River Rock	“Mountain”	Brown	Various Sizes
Manufactured Stone Veneer	Terra Cut	“Rainer”	White	Various Sizes
Manufactured Stone Veneer	Terra Cut	“Russet”	Brown	Various Sizes
Manufactured Stone Veneer	Terra Cut	“Slate”	Gray	Various Sizes
Manufactured Stone Veneer	Terra Cut	“Summit”	Buff	Various Sizes

SUBMITTED BY: Chance Shalosky
Product Manager
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1550 County Road 140
Sugar creek, OH 44681

PURPOSE OF TEST:

- To determine the most appropriate PROSOCO, Inc. new construction cleaner(s) for the submitted samples.
- To determine the most appropriate PROSOCO, Inc. water repellent for the submitted samples.

PRODUCTS EVALUATED:

New Construction Cleaning	Dilution:
Enviro Klean® 2010 All Surface Cleaner® (Maintenance Cleaning)	1:10
Sure Klean® Light Duty Concrete Cleaner	1:3, 1:6
Sure Klean® Vana Trol®	1:8, 1:10

Water Repellency	Dilution:
Sure Klean® Weather Seal Siloxane PD	N/A*
Sure Klean® Weather Seal Siloxane WB Concentrate	1:9

***NOTE: Per the product data sheet instructions, only use the product in concentrate. Do not dilute.**

TEST METHODS: New Construction Cleaning

Enviro Klean® 2010 All Surface Cleaner®, Sure Klean® Light Duty Concrete Cleaner, and Sure Klean® Vana Trol® were evaluated to determine the optimal concentration of cleaner which leaves the external surface looking most like the uncleaned surface of the submitted manufactured stone veneer. Additionally, an evaluation using a soft bristled masonry brush and water alone was conducted to determine if this had any effect on the samples.

Surface Finish Removal is the visual examination of the sample comparing the surface finish of the uncleaned surface to the surface finish cleaned with selected product(s) at given dilutions.

Substrate Deterioration is the visual examination of the sample comparing the uncleaned surface to surfaces cleaned with selected product(s) at given dilutions looking for any potential erosion/digestion of the sample.

Color Change is the visual examination comparing the color of the uncleaned surface to the color of surfaces cleaned with selected products at given dilutions.

Staining is the visual examination for changes that are the result of a chemical reaction that leaves a staining precipitate.

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

- 0 – **No change** compared to uncleaned surface
- 1 – **Slight change** compared to uncleaned surface
- 2 – **Moderate change** compared to uncleaned surface
- 3 – **Significant change** compared to uncleaned surface

Cleaning Procedure:

1. Pre-wet the surface and apply diluted cleaning solution according to PROSOCO, Inc. Product Data Sheet.
2. Allow for an appropriate dwell time and periodically agitate:

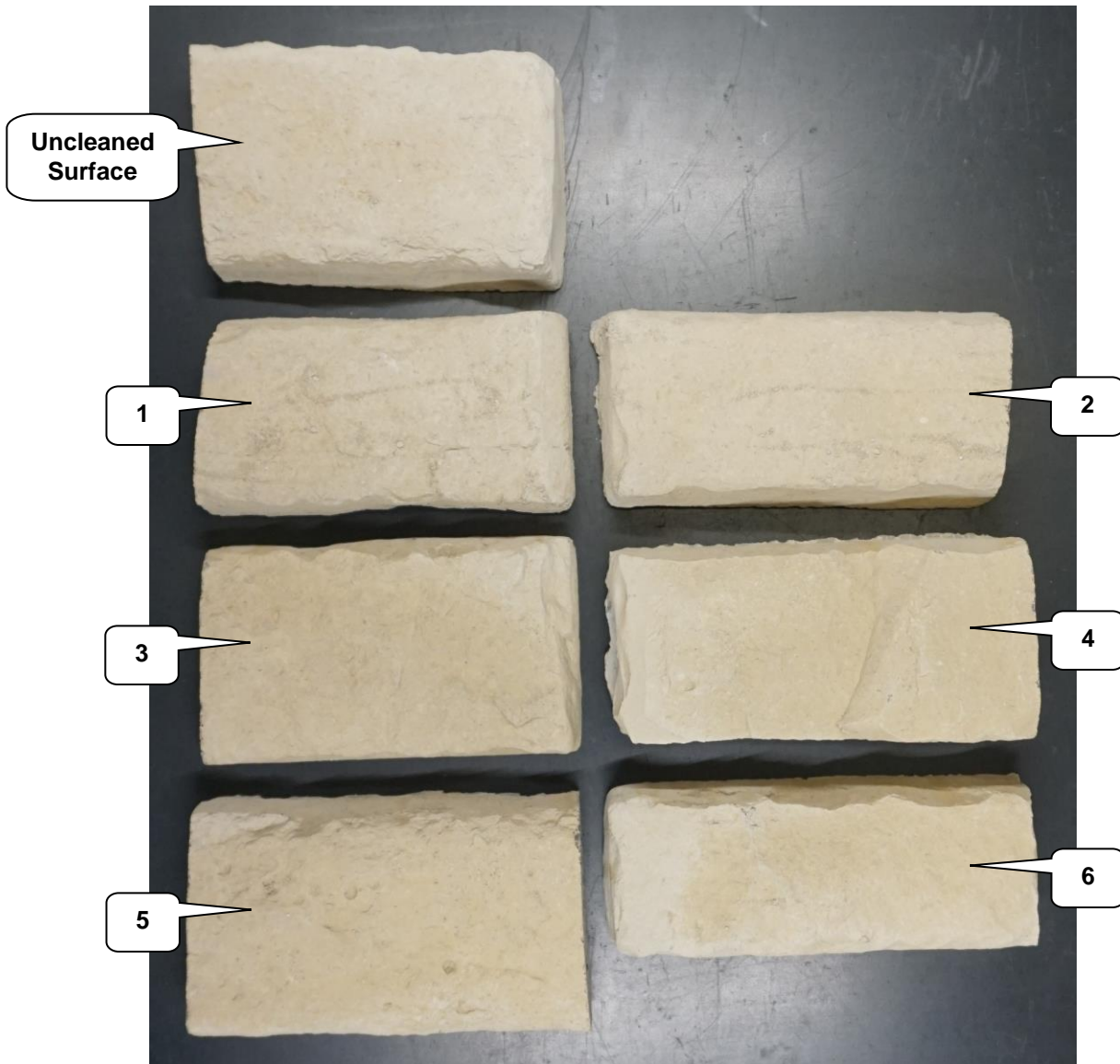
Water.....	5 minutes
2010 All Surface Cleaner®	10 minutes
Light Duty Concrete Cleaner.....	5 minutes
Vana Trol®.....	5 minutes
3. Reapply cleaning solution; do not let cleaner dry into sample.
4. Rinse thoroughly with plenty of fresh water.*
5. Allow the sample to dry for at least 18 hours and visually examine.
6. Compare the uncleaned surfaces to the cleaned surfaces for the best match.

***Rinsing Equipment** – A garden hose with an adjustable nozzle set for a narrow stream of water was used for rinsing because the manufacturer recommends against pressure washing the submitted samples.

TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning

Name: "Brindle" Chisel Cut						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	2	1	0	0	3
Light Duty Concrete Cleaner	1:6	2	1	0	0	4
Vana Trol®	1:8	2	1	0	0	5
Vana Trol®	1:10	2	1	0	0	6

"Brindle" Chisel Cut After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Olympus" Chisel Cut						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	3	1	0	0	3
Light Duty Concrete Cleaner	1:6	3	1	0	0	4
Vana Trol®	1:8	3	1	0	0	5
Vana Trol®	1:10	3	1	0	0	6

"Olympus" Chisel Cut After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Silverlake" Chisel Cut						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	1	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	1	1	0	0	5
Vana Trol®	1:10	1	1	0	0	6

"Silverlake" Chisel Cut After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Wellington" Chisel Cut						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	1	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	1	1	0	0	5
Vana Trol®	1:10	1	1	0	0	6

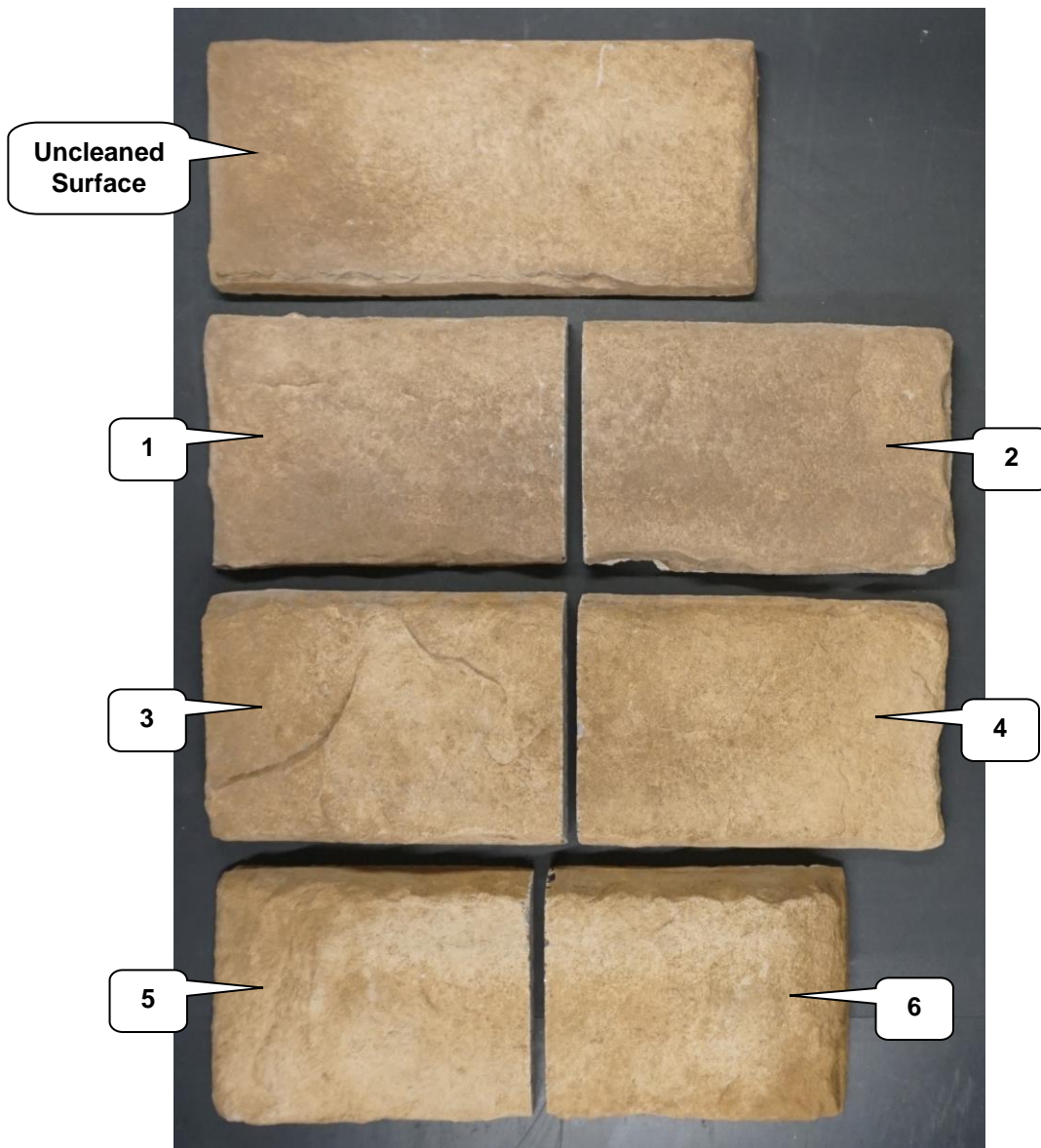
"Wellington" Chisel Cut After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Catawba" Dry Stack						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	3	1	0	0	3
Light Duty Concrete Cleaner	1:6	3	1	0	0	4
Vana Trol®	1:8	3	1	0	0	5
Vana Trol®	1:10	3	1	0	0	6

"Catawba" Dry Stack After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Chestnut" Dry Stack						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	1	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	1	1	0	0	5
Vana Trol®	1:10	1	1	0	0	6

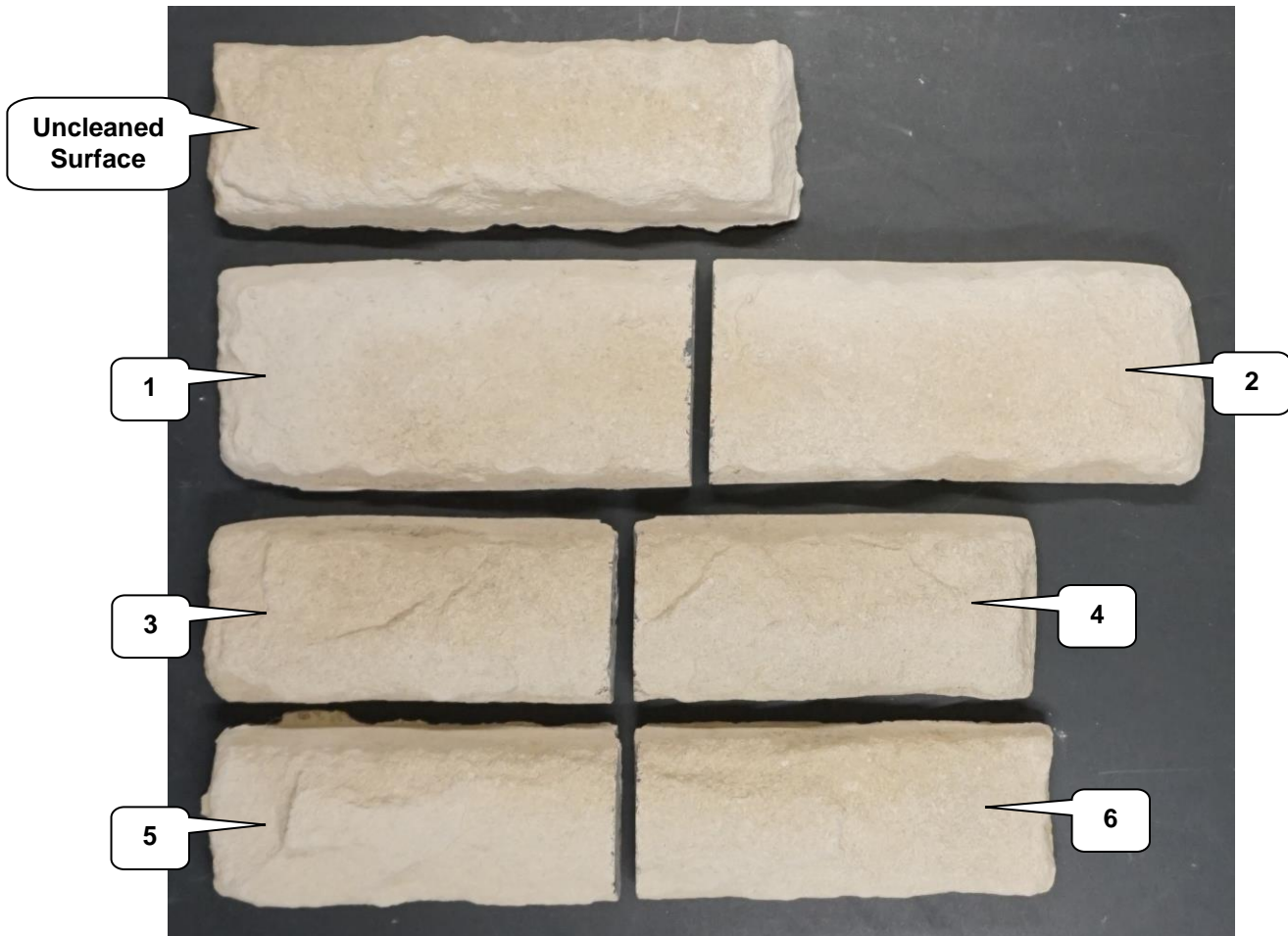
"Chestnut" Dry Stack After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Ottawa" Dry Stack						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	1	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	1	1	0	0	5
Vana Trol®	1:10	1	1	0	0	6

"Ottawa" Dry Stack After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Whisperwood" Dry Stack						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	1	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	1	1	0	0	5
Vana Trol®	1:10	1	1	0	0	6

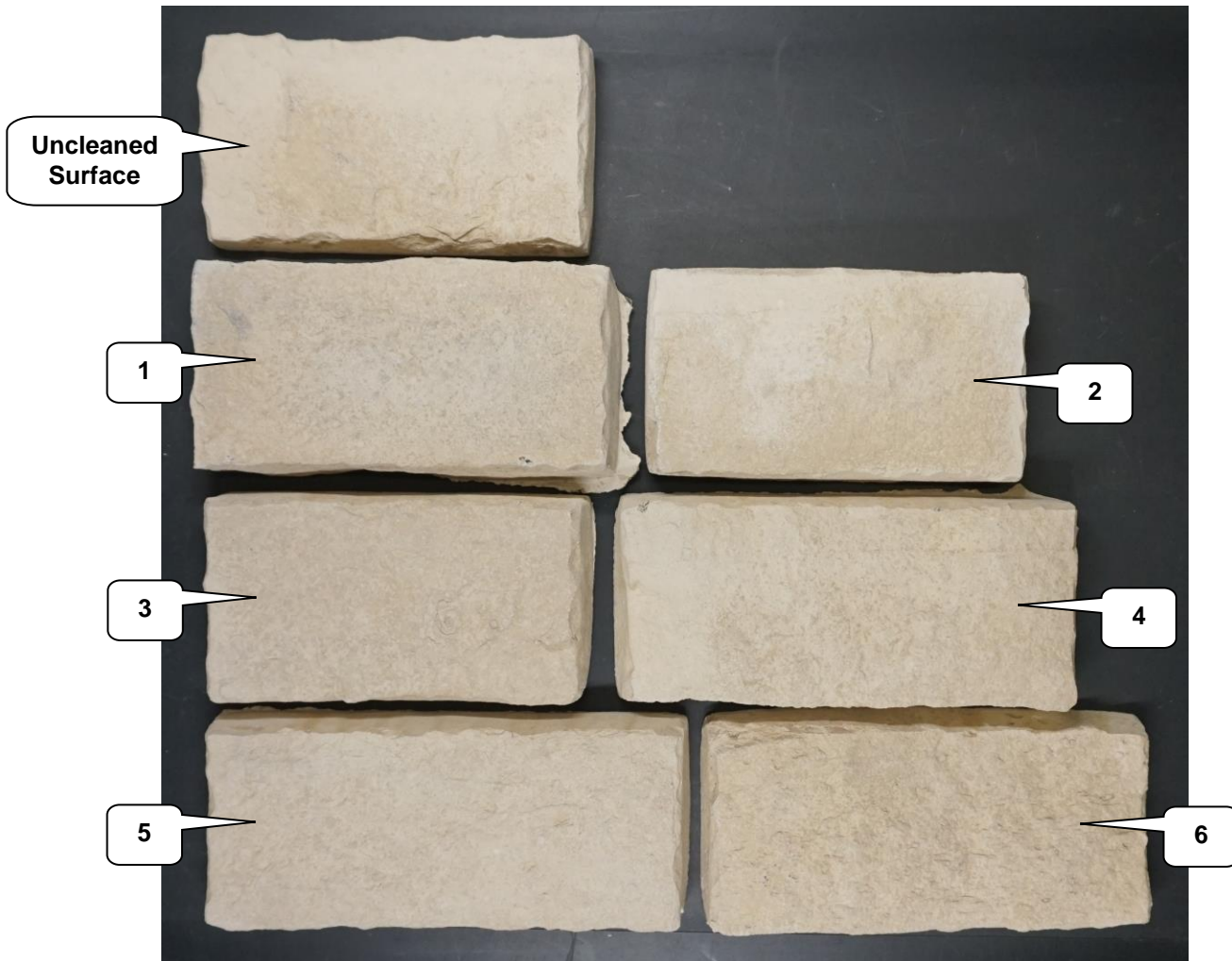
"Whisperwood" Dry Stack After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Beech" Edge Cut						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	1	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	1	1	0	0	5
Vana Trol®	1:10	1	1	0	0	6

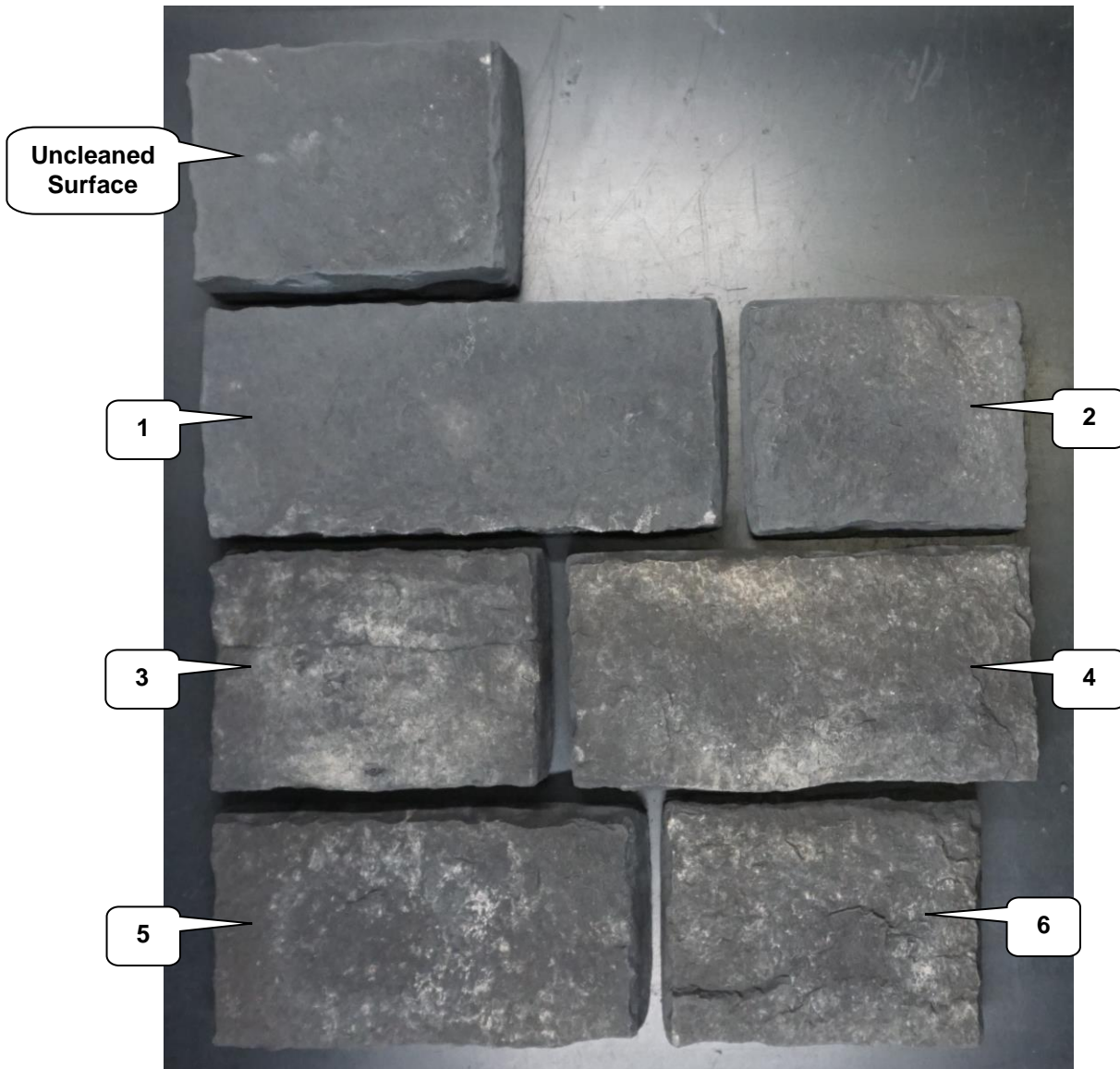
"Beech" Edge Cut After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Obsidian" Edge Cut						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	3	1	0	0	3
Light Duty Concrete Cleaner	1:6	3	1	0	0	4
Vana Trol®	1:8	3	1	0	0	5
Vana Trol®	1:10	3	1	0	0	6

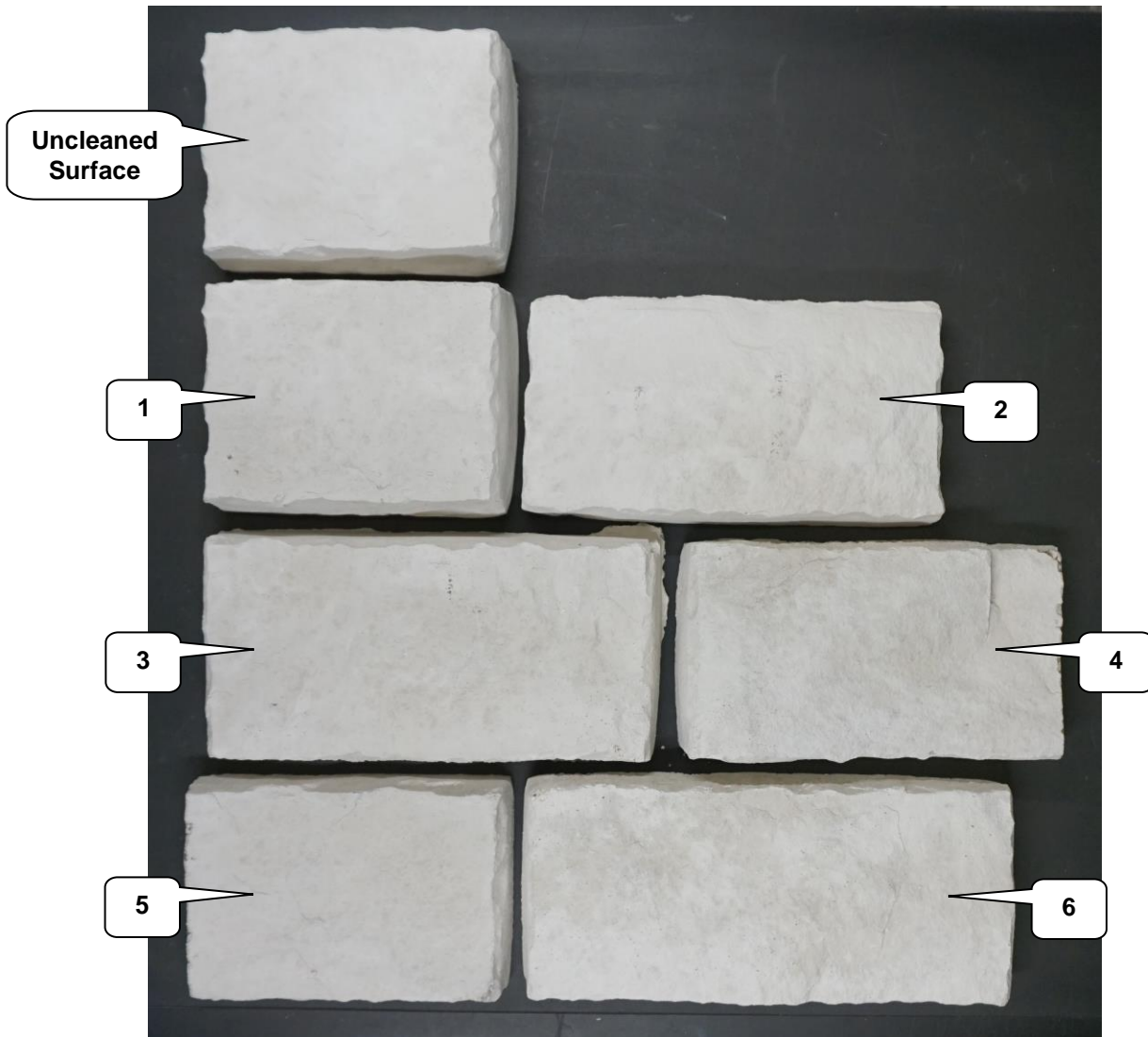
"Obsidian" Edge Cut After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Polar" Edge Cut						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	1	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	1	1	0	0	5
Vana Trol®	1:10	1	1	0	0	6

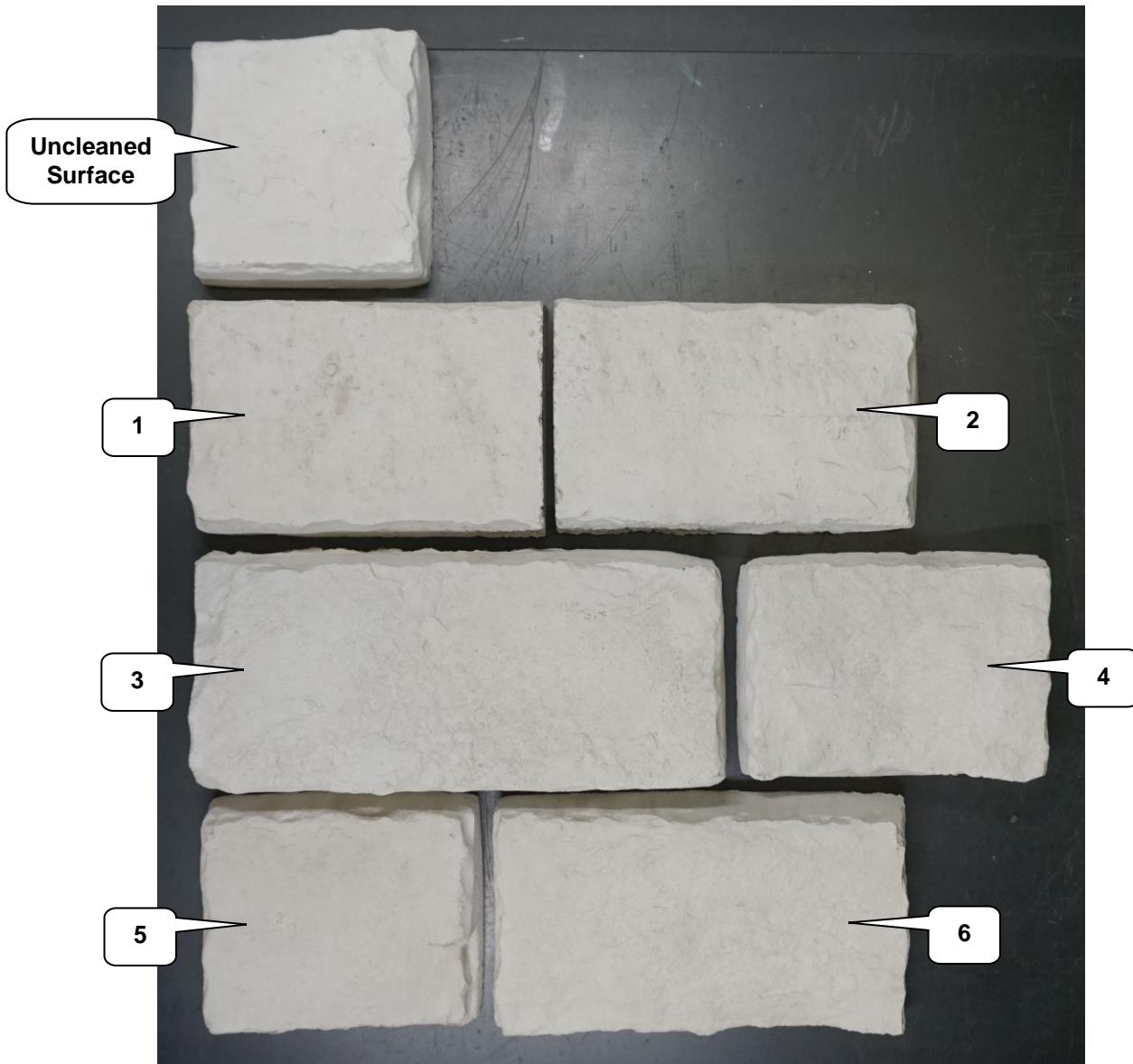
"Polar" Edge Cut After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Tundra" Edge Cut						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	1	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	1	1	0	0	5
Vana Trol®	1:10	1	1	0	0	6

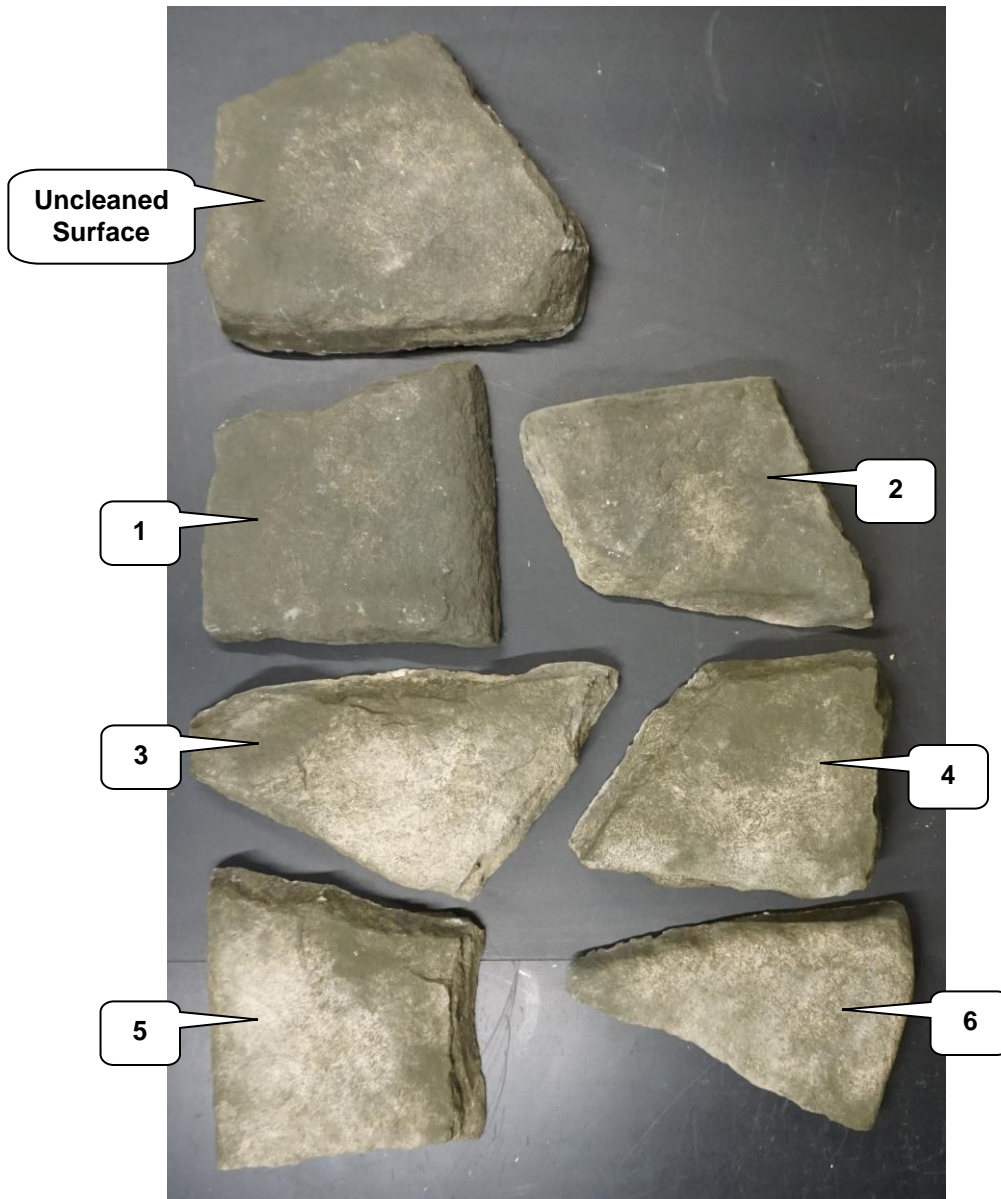
"Tundra" Edge Cut After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Pennsylvania" Fieldstone						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	3	1	0	0	3
Light Duty Concrete Cleaner	1:6	3	1	0	0	4
Vana Trol®	1:8	3	1	0	0	5
Vana Trol®	1:10	3	1	0	0	6

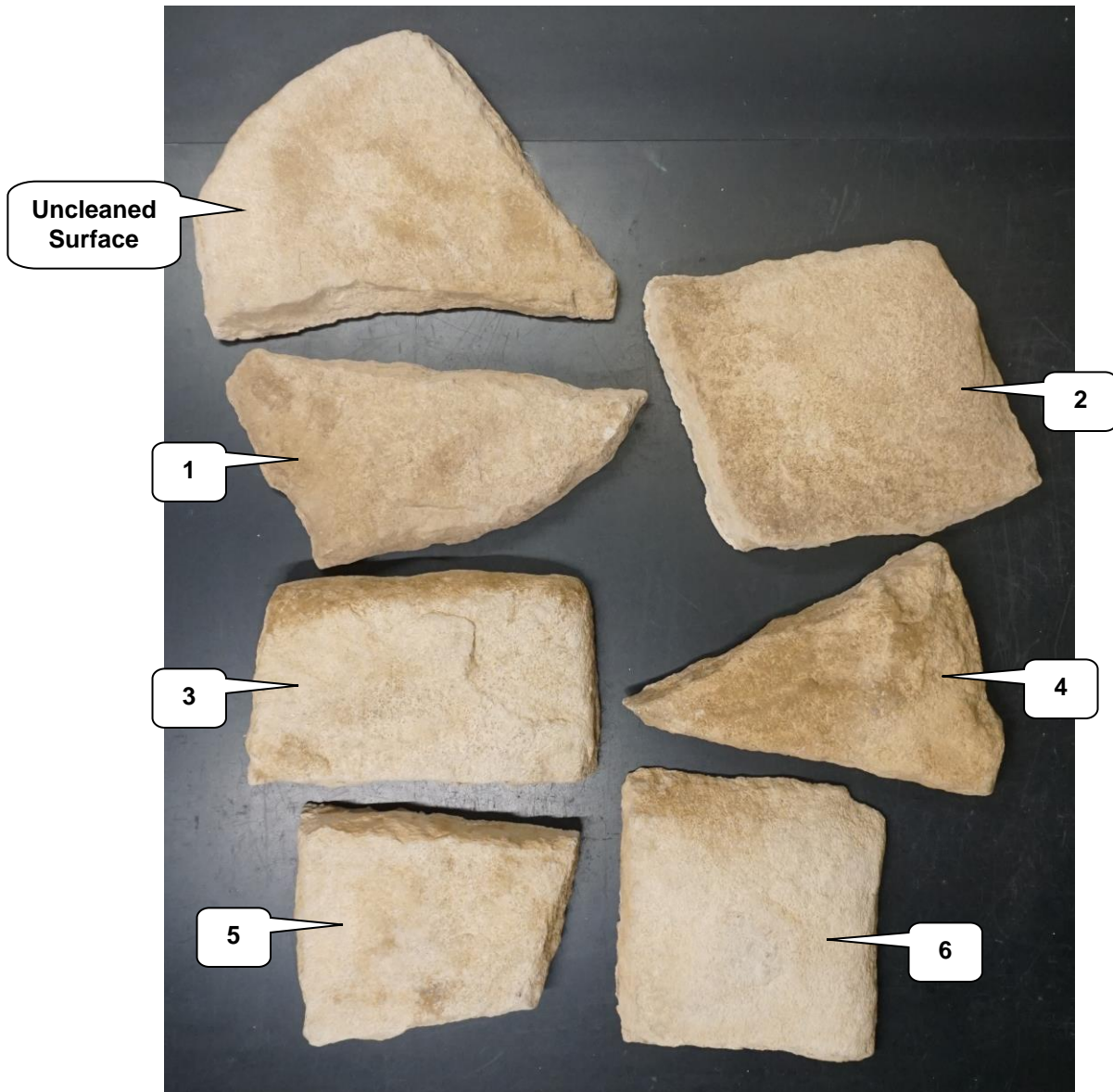
"Pennsylvania" Fieldstone After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Shenandoah" Fieldstone						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	3	1	0	0	3
Light Duty Concrete Cleaner	1:6	2	1	0	0	4
Vana Trol®	1:8	3	1	0	0	5
Vana Trol®	1:10	3	1	0	0	6

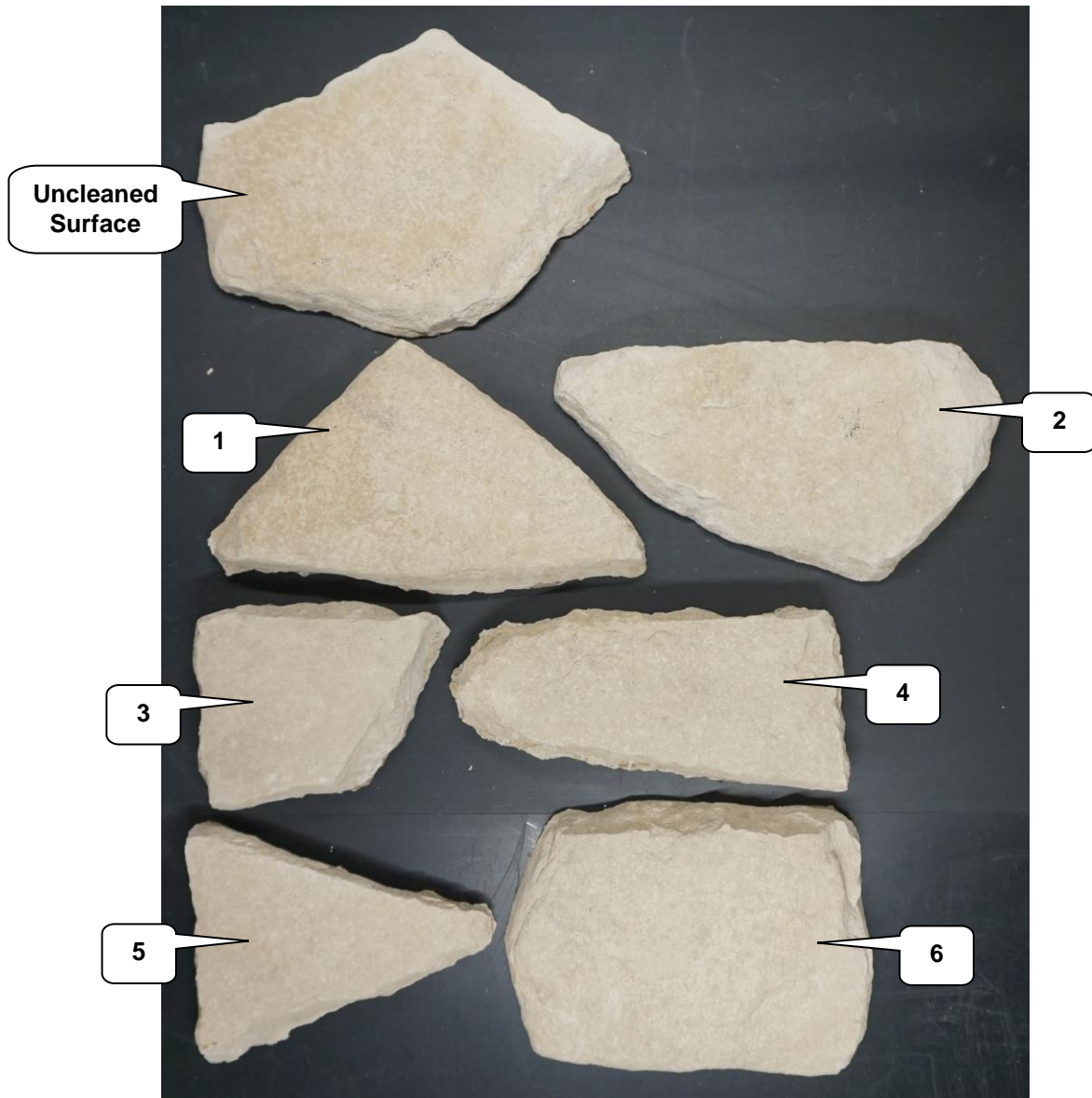
"Shenandoah" Fieldstone After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Strathmore" Fieldstone						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	2	1	0	0	3
Light Duty Concrete Cleaner	1:6	2	1	0	0	4
Vana Trol®	1:8	2	1	0	0	5
Vana Trol®	1:10	2	1	0	0	6

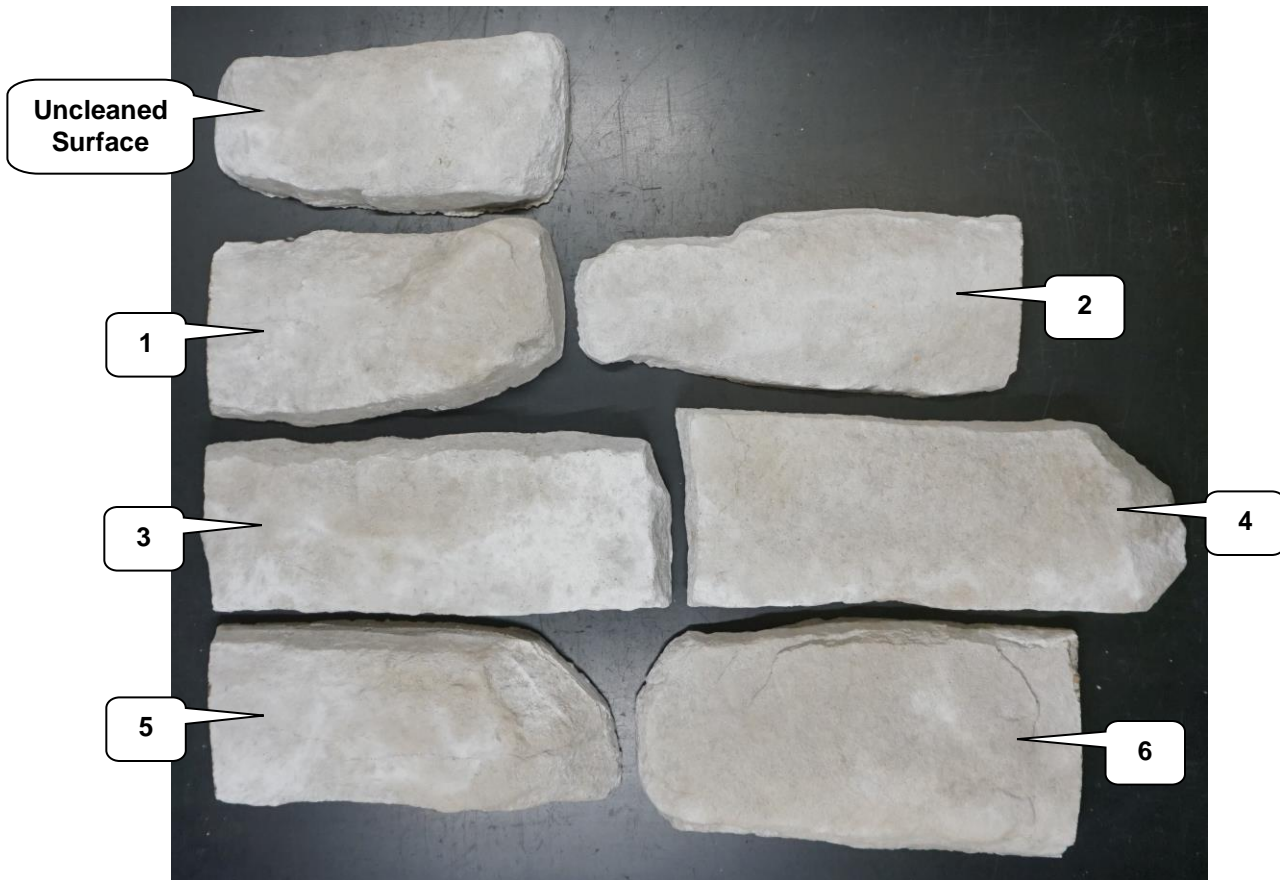
"Strathmore" Fieldstone After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Mystic" LedgeStone						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	1	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	1	1	0	0	5
Vana Trol®	1:10	1	1	0	0	6

"Mystic" LedgeStone After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Osage" LedgeStone						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	1	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	1	1	0	0	5
Vana Trol®	1:10	1	1	0	0	6

"Osage" LedgeStone After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Oxford" LedgeStone						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	2	1	0	0	3
Light Duty Concrete Cleaner	1:6	2	1	0	0	4
Vana Trol®	1:8	2	1	0	0	5
Vana Trol®	1:10	2	1	0	0	6

"Oxford" LedgeStone After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Rushmore" LedgeStone						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	1	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	2	1	0	0	5
Vana Trol®	1:10	2	1	0	0	6

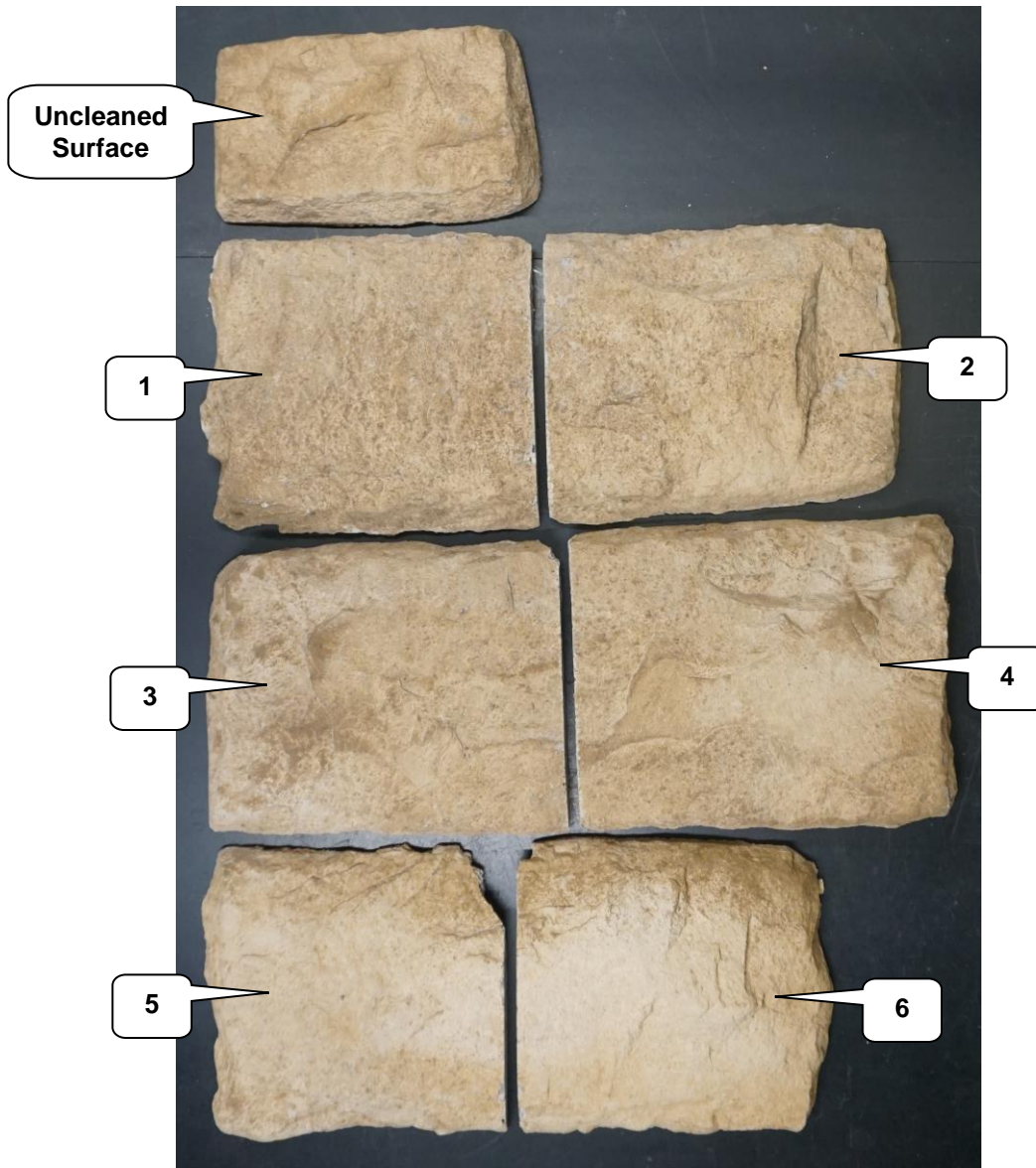
"Rushmore" LedgeStone After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Allegheny" Limestone						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	2	1	0	0	3
Light Duty Concrete Cleaner	1:6	2	1	0	0	4
Vana Trol®	1:8	3	1	0	0	5
Vana Trol®	1:10	3	1	0	0	6

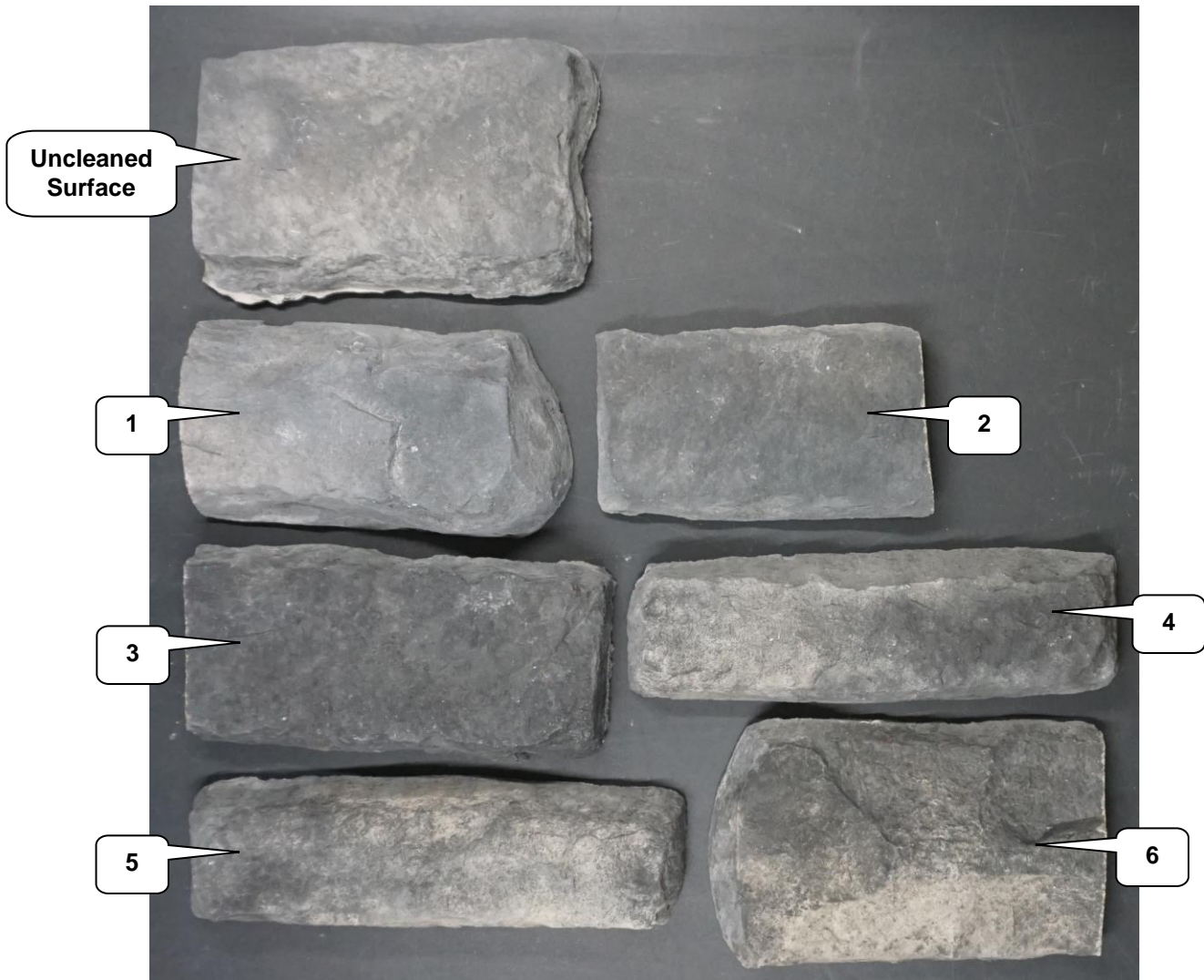
"Allegheny" Limestone After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Blue Ridge" Limestone						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	3	1	0	0	3
Light Duty Concrete Cleaner	1:6	3	1	0	0	4
Vana Trol®	1:8	3	1	0	0	5
Vana Trol®	1:10	3	1	0	0	6

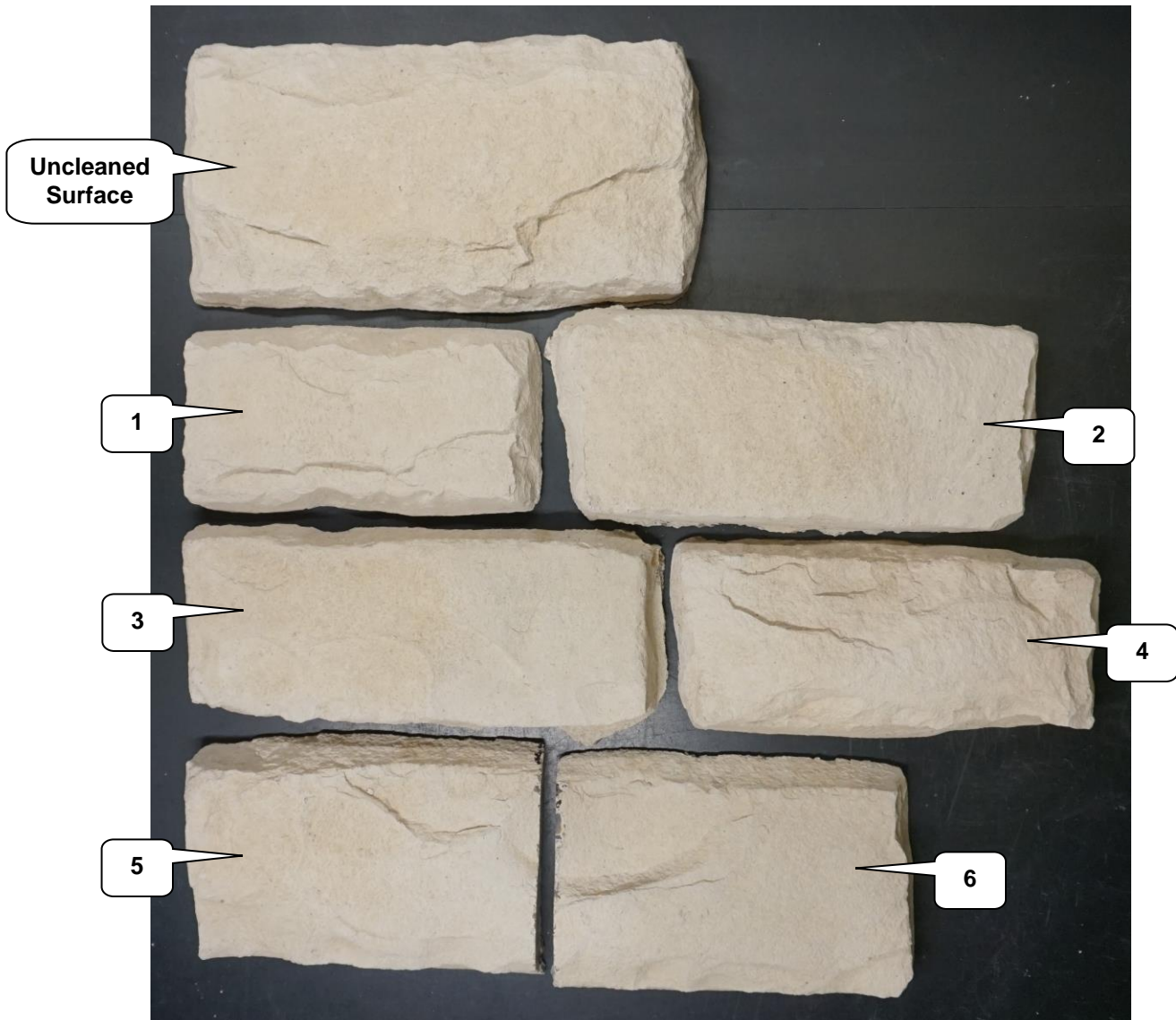
"Blue Ridge" Limestone After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Ohio Vintage" Limestone						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	1	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	1	1	0	0	5
Vana Trol®	1:10	1	1	0	0	6

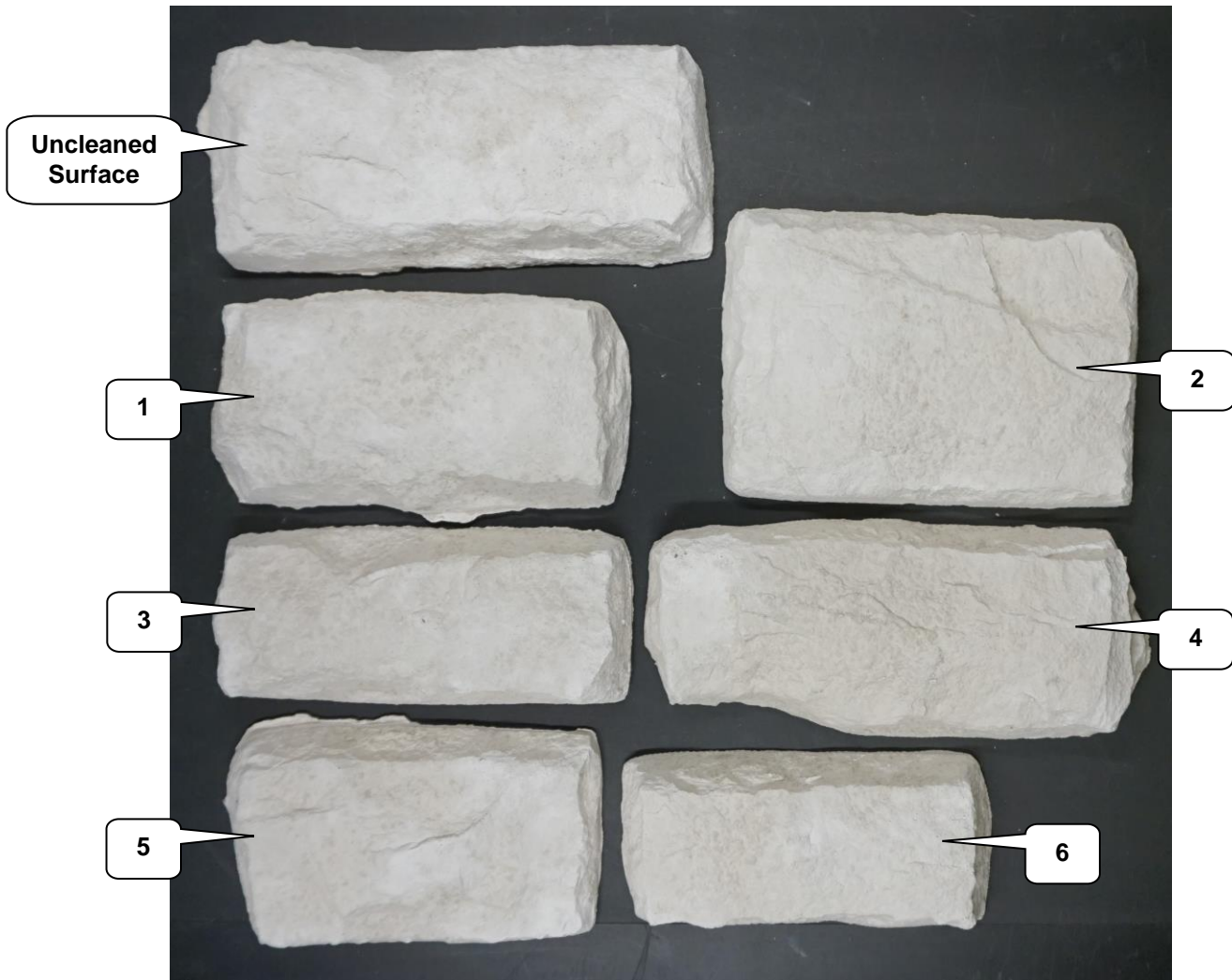
"Ohio Vintage" Limestone After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Vail" Limestone						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	1	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	1	1	0	0	5
Vana Trol®	1:10	1	1	0	0	6

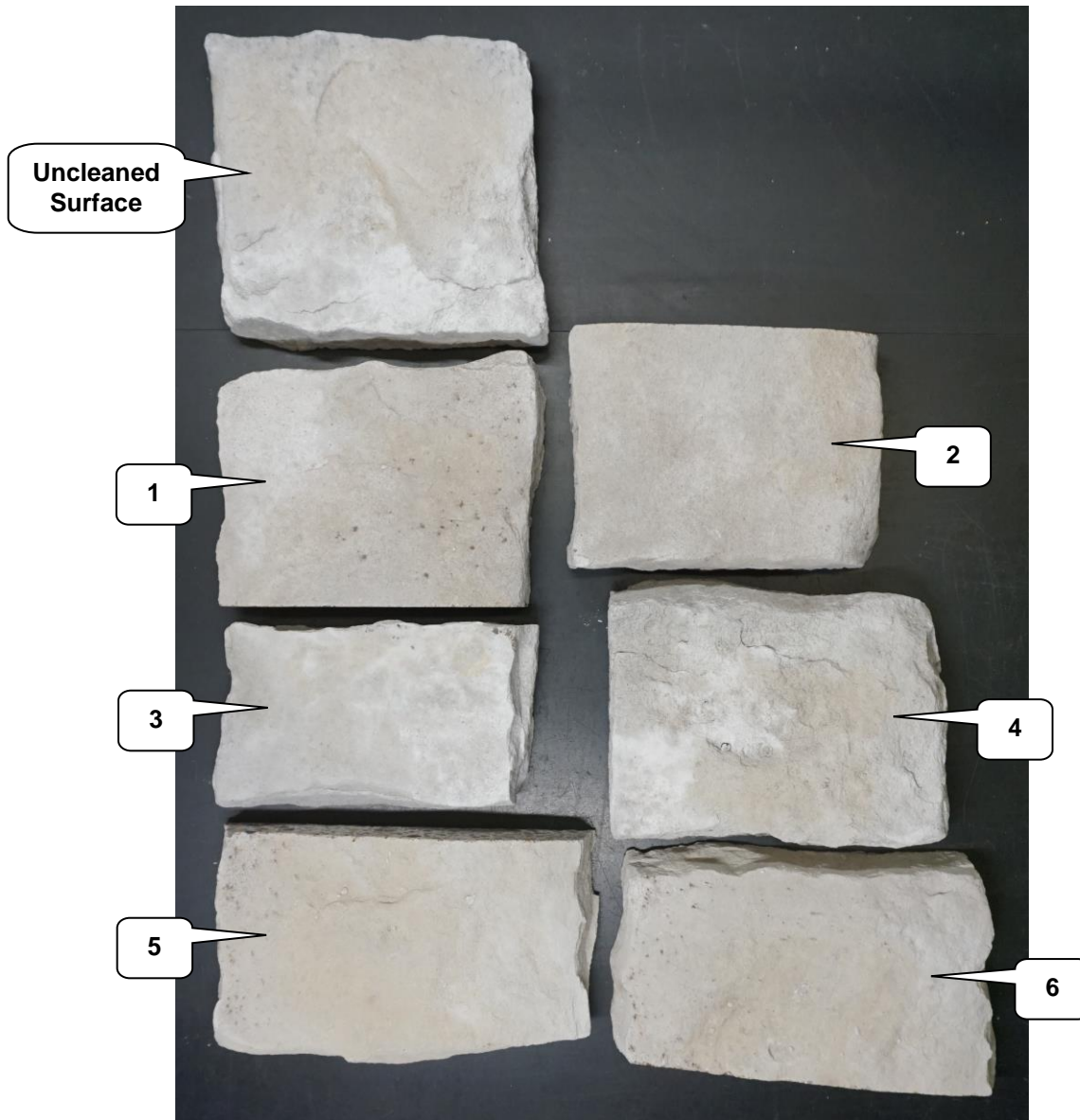
"Vail" Limestone After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Alta" Natural Cut						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	1	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	1	1	0	0	5
Vana Trol®	1:10	1	1	0	0	6

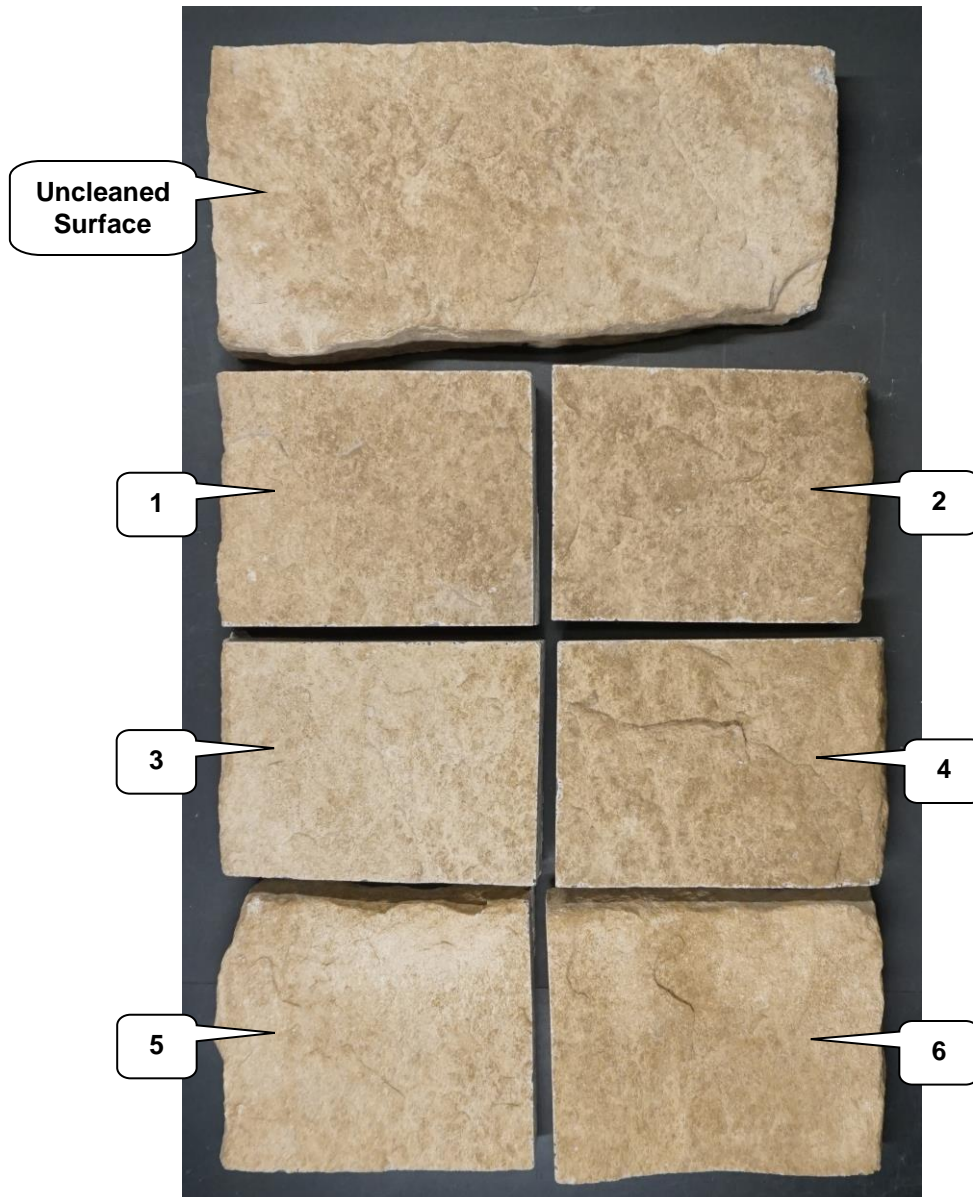
"Alta" Natural Cut After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Ashworth" Natural Cut						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	3	1	0	0	3
Light Duty Concrete Cleaner	1:6	2	1	0	0	4
Vana Trol®	1:8	3	1	0	0	5
Vana Trol®	1:10	2	1	0	0	6

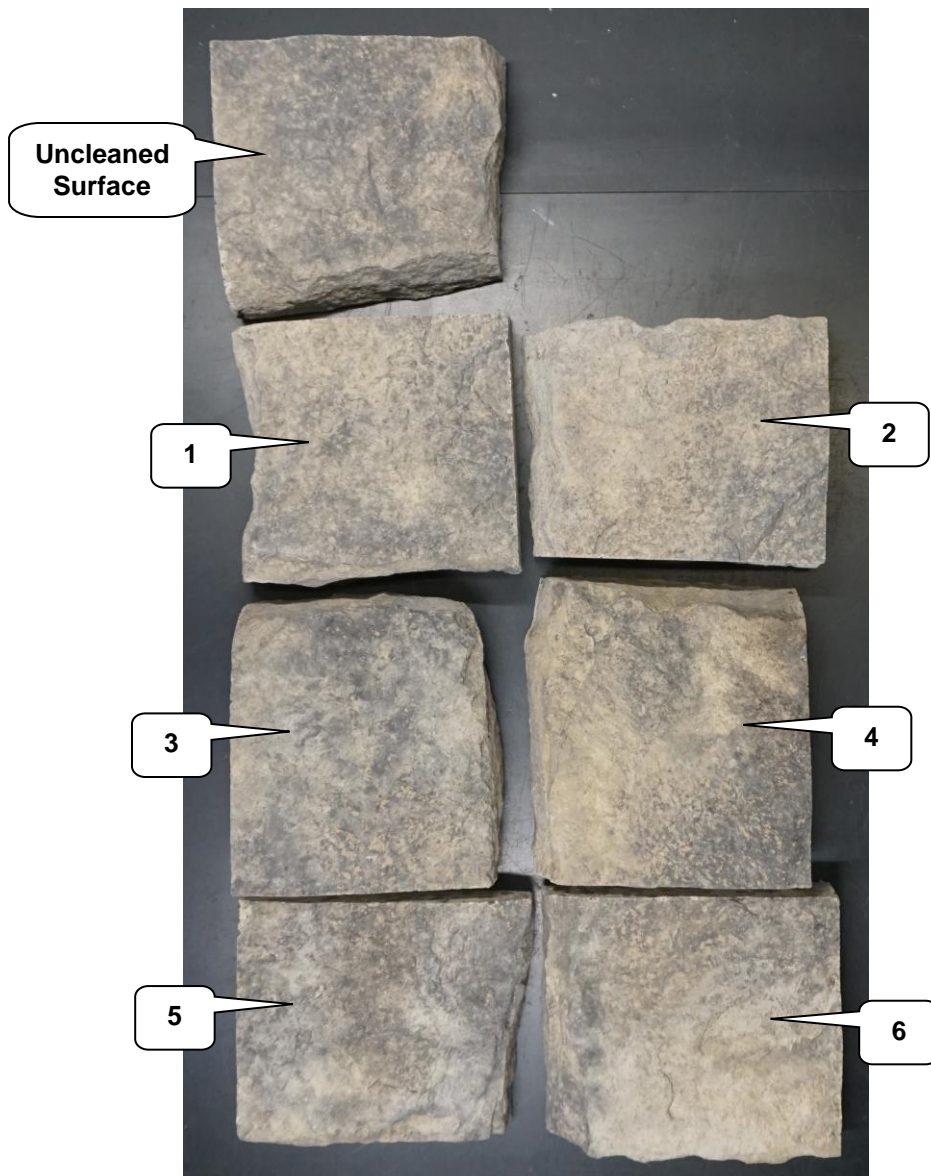
"Ashworth" Natural Cut After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Fernwood" Natural Cut						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	2	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	2	1	0	0	5
Vana Trol®	1:10	1	1	0	0	6

"Fernwood" Natural Cut After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Adobe Sands" Precisionfit						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	1	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	1	1	0	0	5
Vana Trol®	1:10	1	1	0	0	6

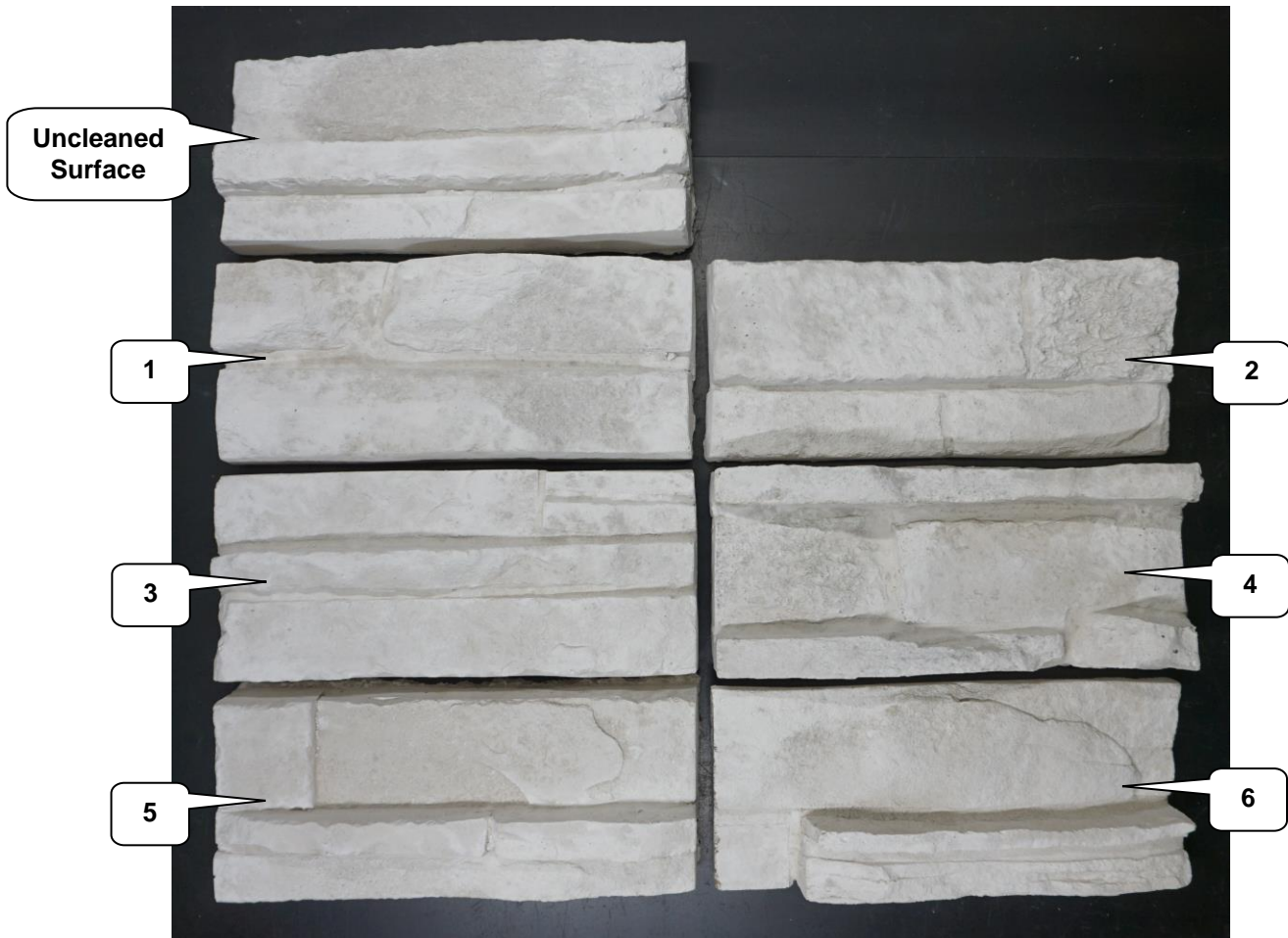
"Adobe Sands" Precisionfit After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Arctic" Precisionfit						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	1	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	1	1	0	0	5
Vana Trol®	1:10	1	1	0	0	6

"Arctic" Precisionfit After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Driftwood" Precisionfit						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	3	1	0	0	3
Light Duty Concrete Cleaner	1:6	2	1	0	0	4
Vana Trol®	1:8	3	1	0	0	5
Vana Trol®	1:10	2	1	0	0	6

"Driftwood" Precisionfit After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Onyx" Precisionfit						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	3	1	0	0	3
Light Duty Concrete Cleaner	1:6	3	1	0	0	4
Vana Trol®	1:8	3	1	0	0	5
Vana Trol®	1:10	3	1	0	0	6

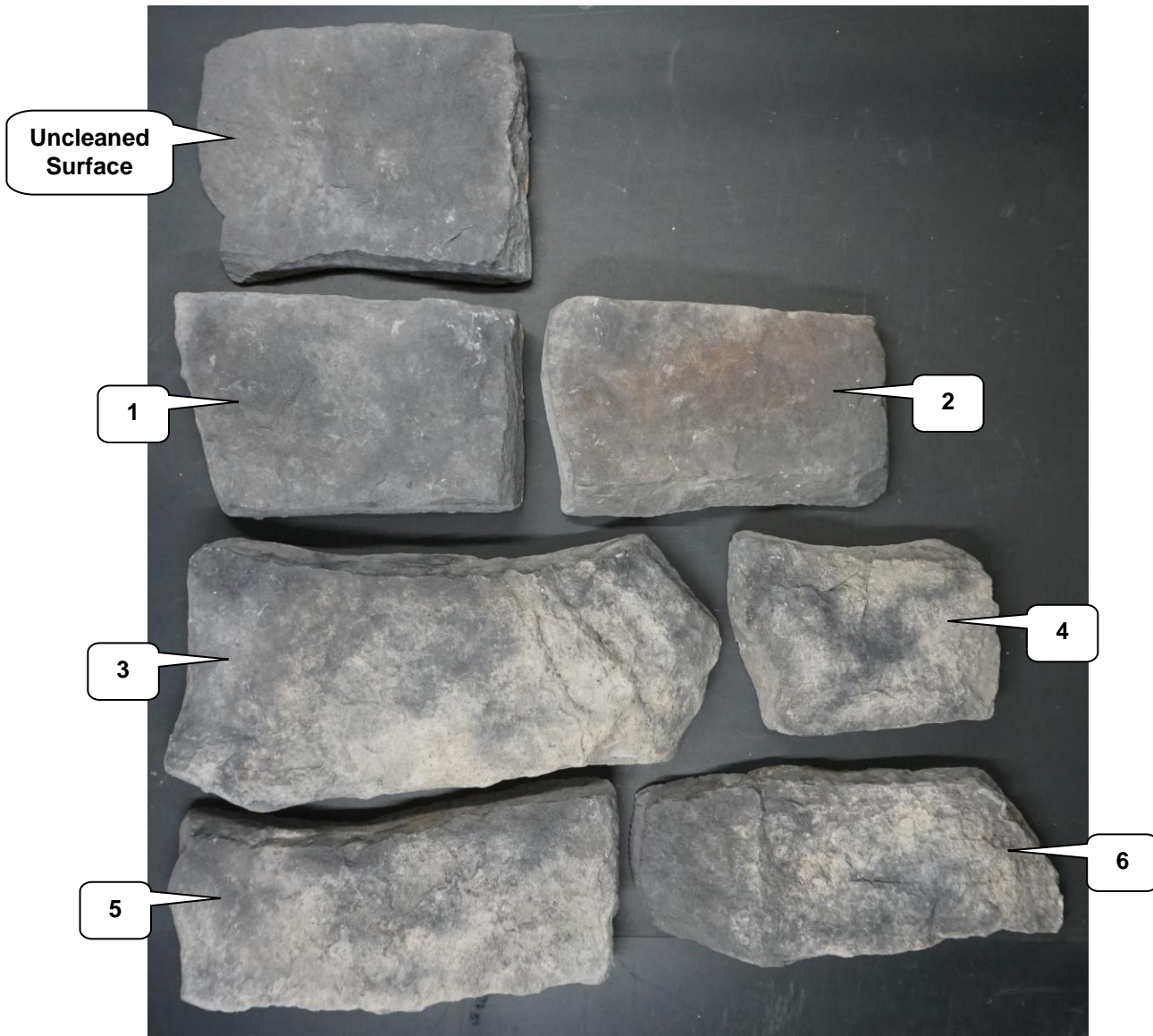
"Onyx" Precisionfit After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Castle Rock" Ridge Cut						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	3	1	0	0	3
Light Duty Concrete Cleaner	1:6	3	1	0	0	4
Vana Trol®	1:8	3	1	0	0	5
Vana Trol®	1:10	3	1	0	0	6

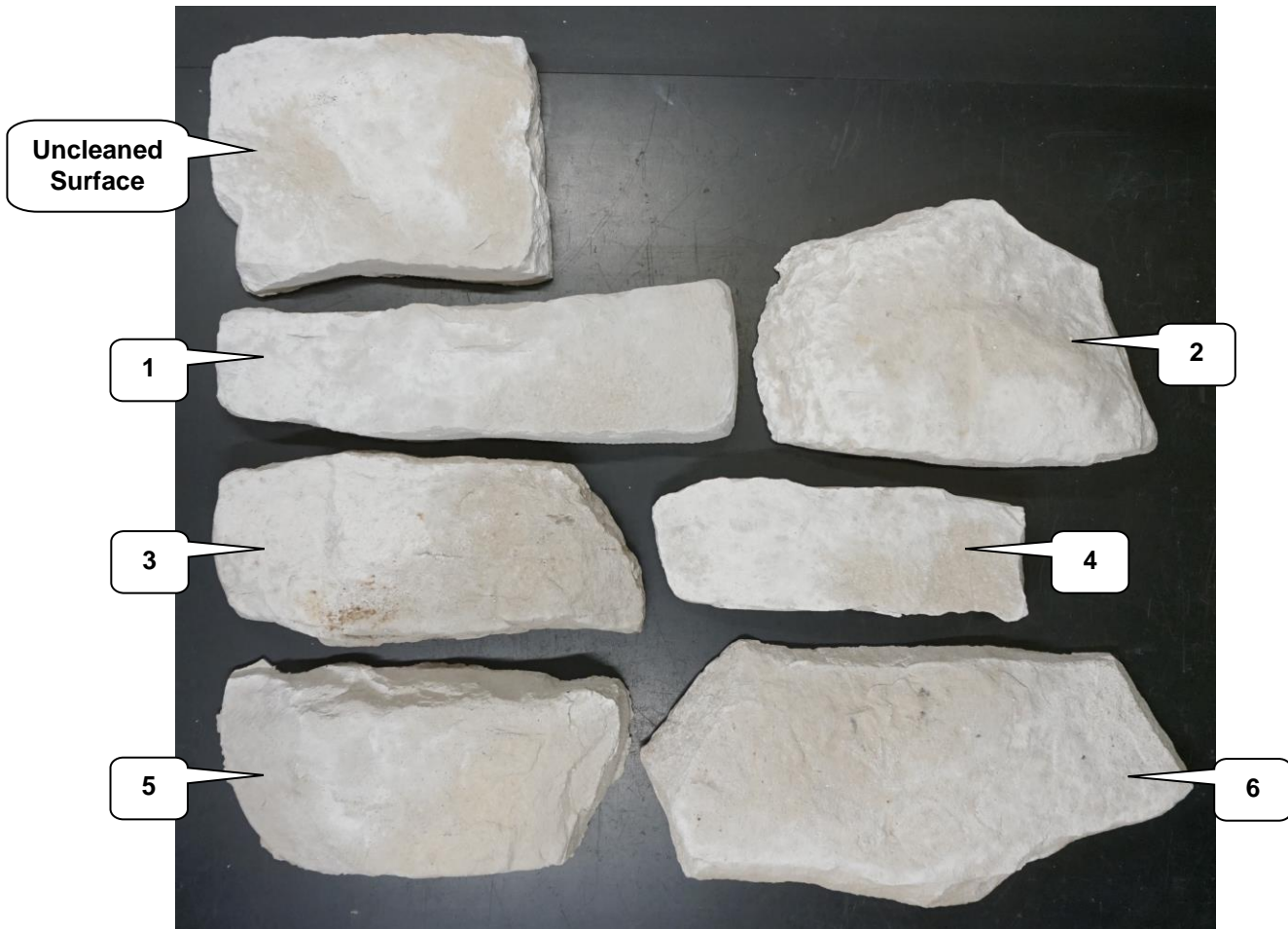
"Castle Rock" Ridge Cut After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Denali" Ridge Cut						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	1	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	1	1	0	0	5
Vana Trol®	1:10	1	1	0	0	6

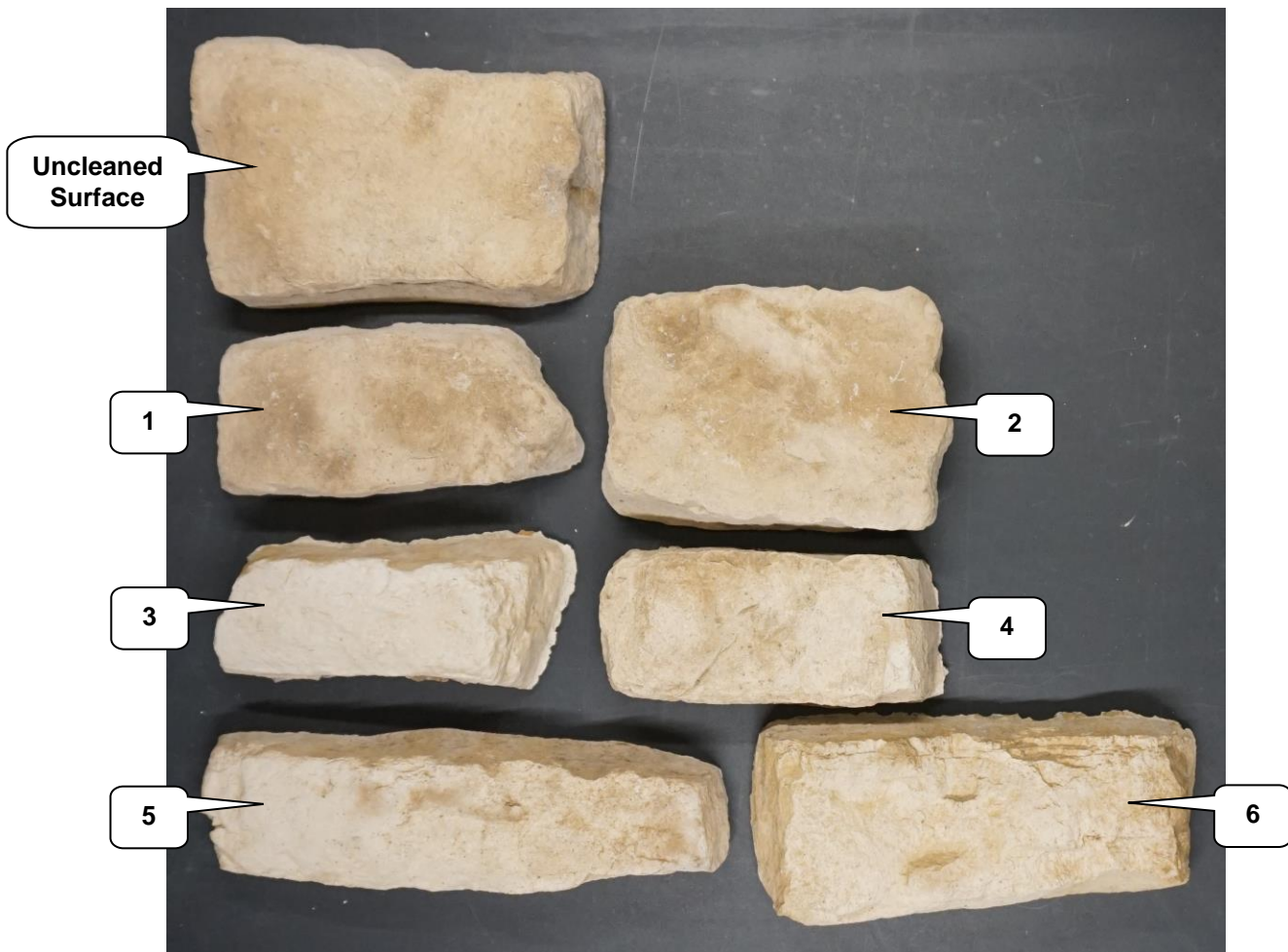
"Denali" Ridge Cut After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Yosemite" Ridge Cut						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	3	1	0	0	3
Light Duty Concrete Cleaner	1:6	3	1	0	0	4
Vana Trol®	1:8	3	1	0	0	5
Vana Trol®	1:10	3	1	0	0	6

"Yosemite" Ridge Cut After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Michigan" River Rock						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	3	1	0	0	3
Light Duty Concrete Cleaner	1:6	3	1	0	0	4
Vana Trol®	1:8	3	1	0	0	5
Vana Trol®	1:10	3	1	0	0	6

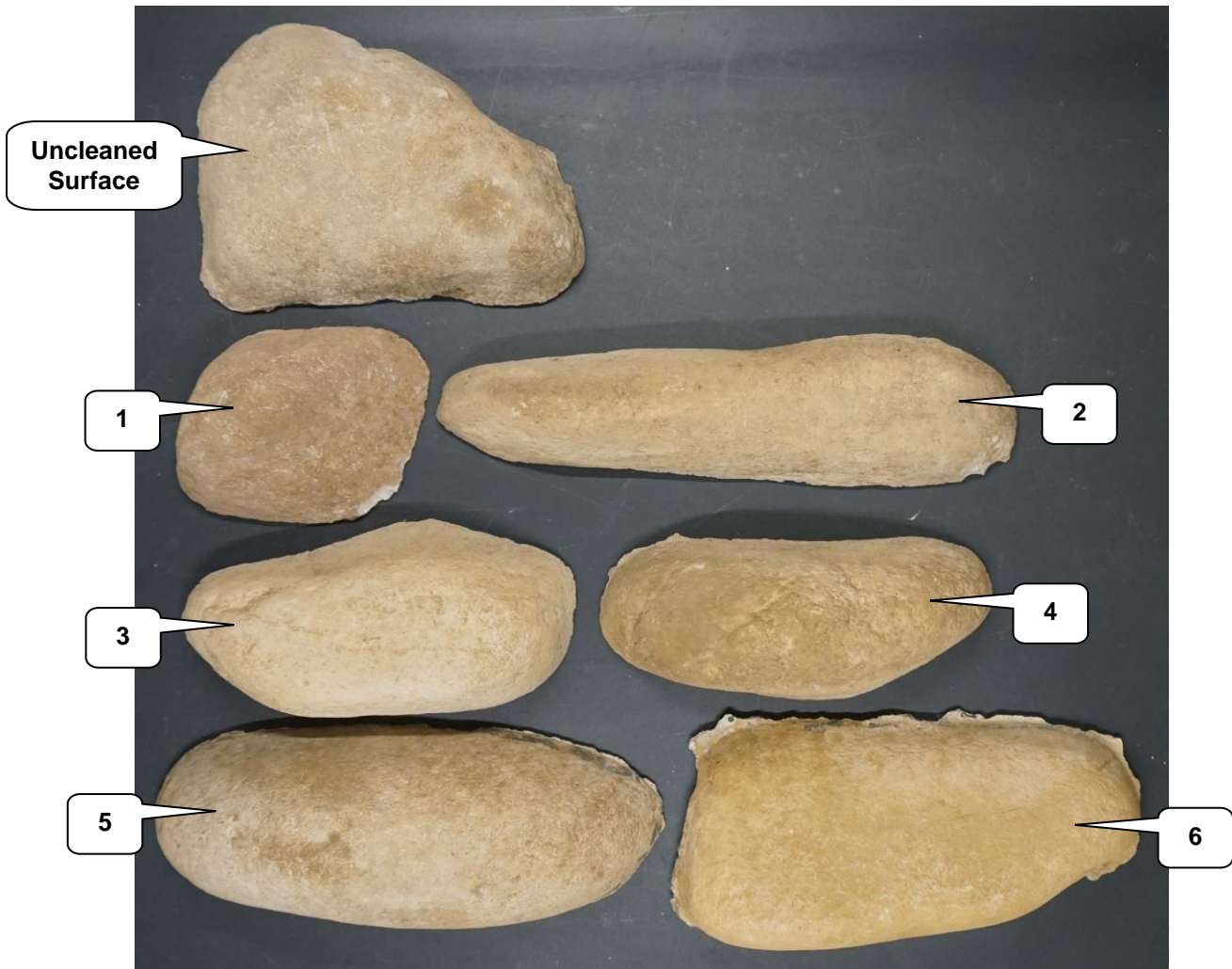
"Michigan" River Rock After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Mountain" River Rock						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	3	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	3	1	0	0	5
Vana Trol®	1:10	2	1	0	0	6

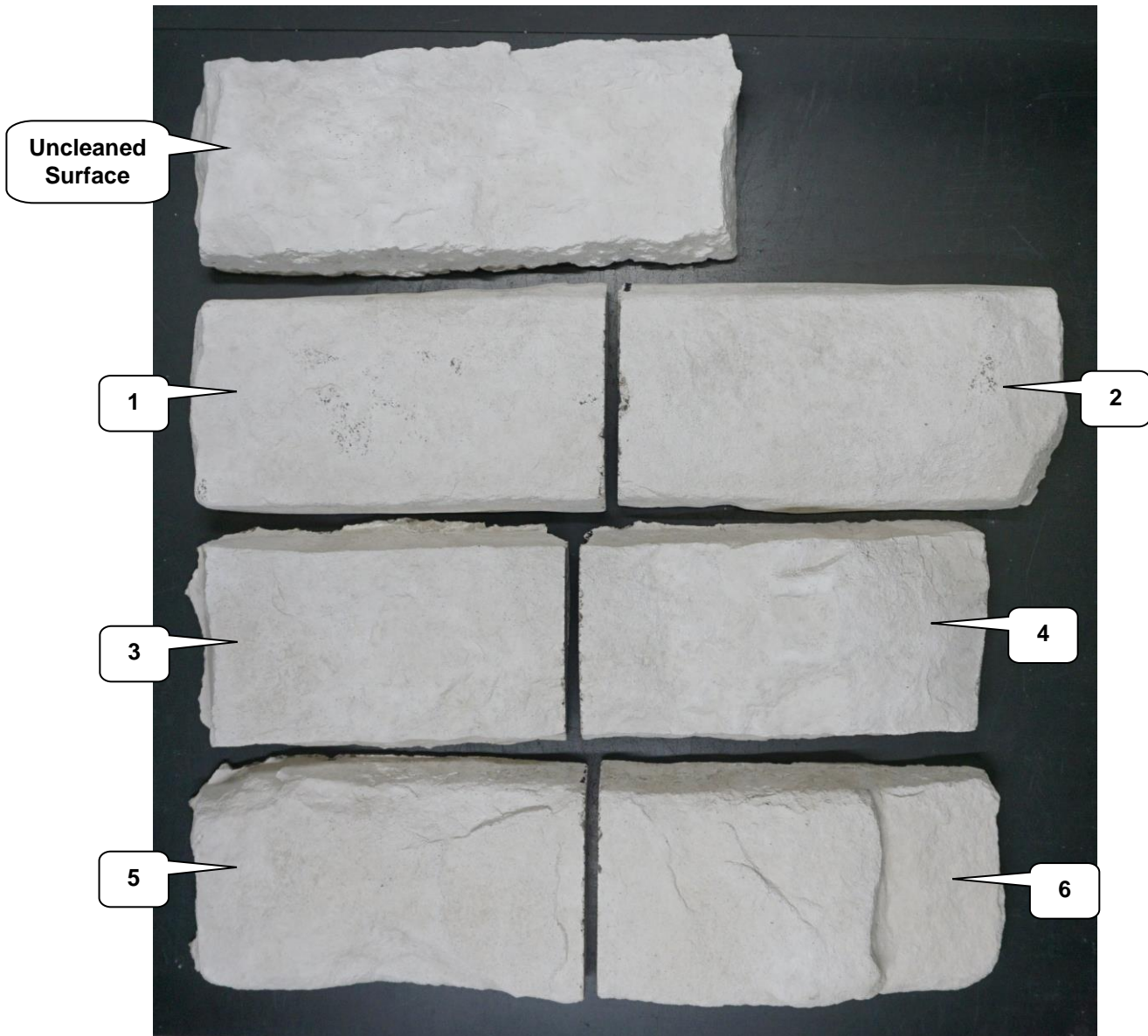
"Mountain" River Rock After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Rainer" Terra Cut						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	1	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	1	1	0	0	5
Vana Trol®	1:10	1	1	0	0	6

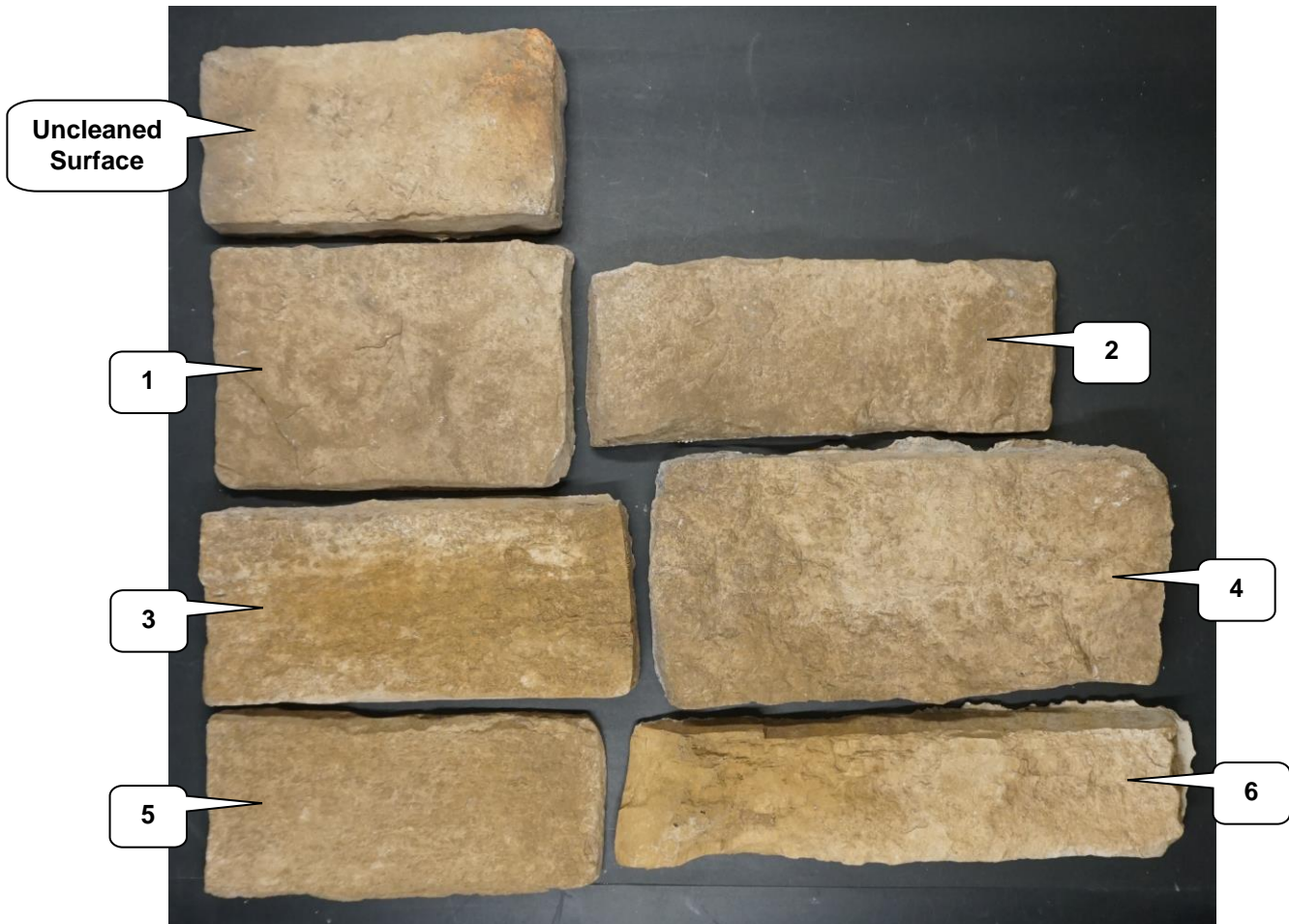
"Rainer" Terra Cut After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Russet" Terra Cut						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	2	1	0	0	3
Light Duty Concrete Cleaner	1:6	2	1	0	0	4
Vana Trol®	1:8	2	1	0	0	5
Vana Trol®	1:10	2	1	0	0	6

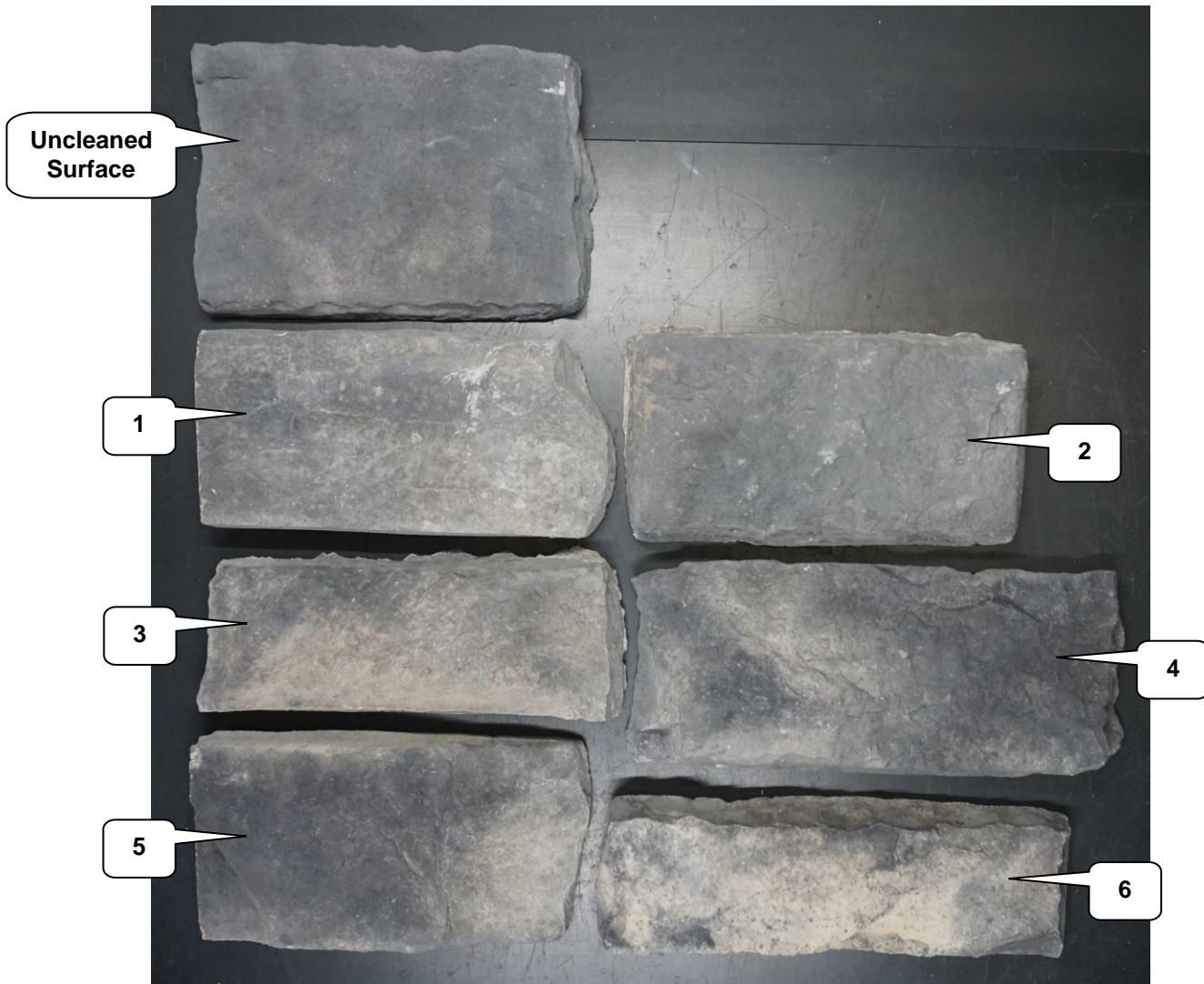
"Russet" Terra Cut After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Slate" Terra Cut						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	2	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	3	1	0	0	5
Vana Trol®	1:10	3	1	0	0	6

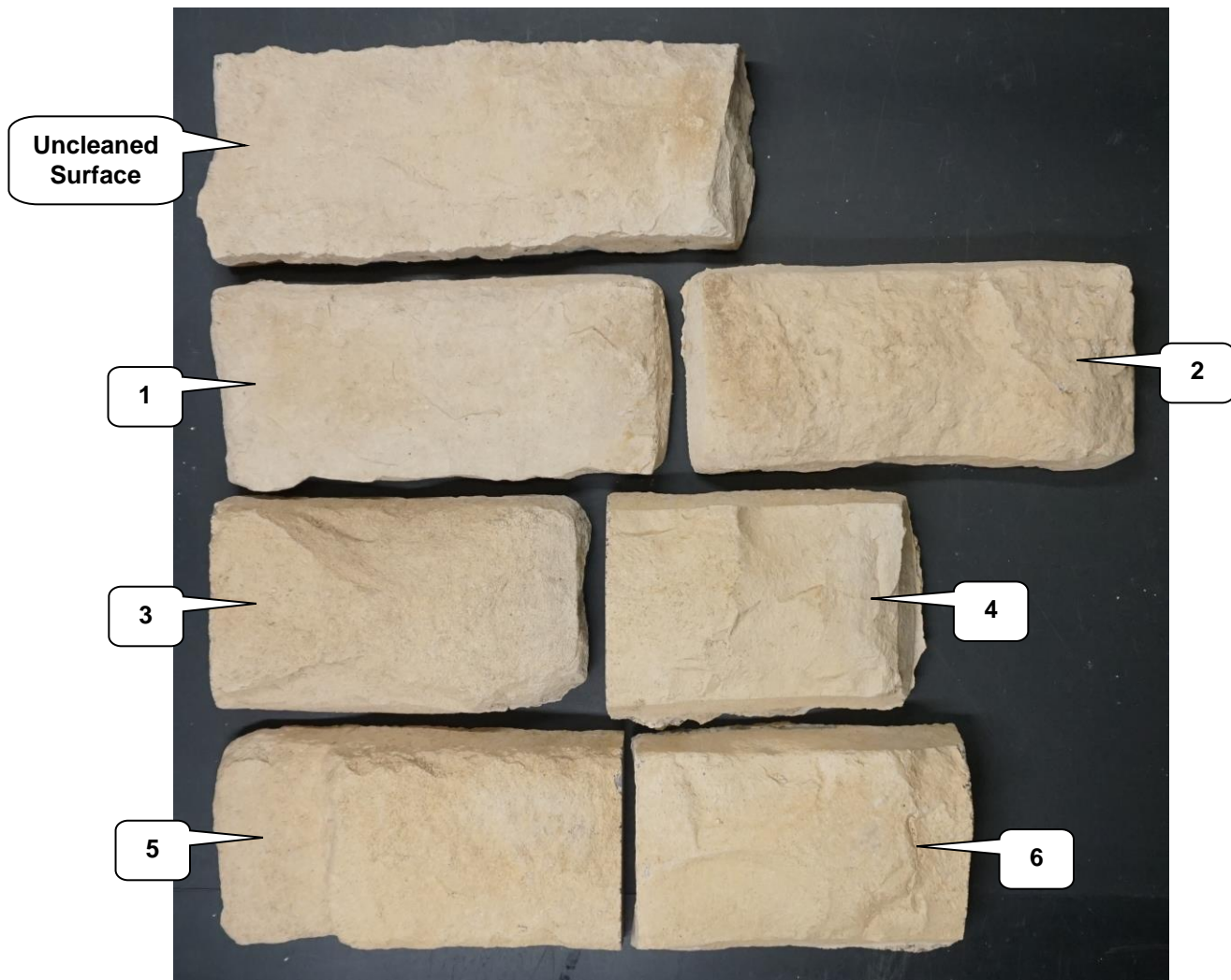
"Slate" Terra Cut After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning (cont.)

Name: "Summit" Terra Cut						
Product	Dilution	Surface Finish Removal	Substrate Deterioration	Color Change	Staining	Key
Water	N/A	0	0	0	0	1
2010 All Surface Cleaner®	1:10	0	0	0	0	2
Light Duty Concrete Cleaner	1:3	1	1	0	0	3
Light Duty Concrete Cleaner	1:6	1	1	0	0	4
Vana Trol®	1:8	1	1	0	0	5
Vana Trol®	1:10	1	1	0	0	6

"Summit" Terra Cut After Cleaning



CONCLUSIONS: New Construction Cleaning

In all of the cleaning tests conducted, Enviro Klean® 2010 All Surface Cleaner® diluted with ten parts water did not cause any change to the appearance of the manufactured stone veneers.

Both dilutions of Sure Klean® Light Duty Concrete Cleaner and Sure Klean® Vana Trol® resulted in a slight to significant amount of surface finish removal and a slight amount of substrate deterioration. It is recommended that none of the new construction cleaners be used that resulted in moderate to significant surface finish removal. The new construction cleaners that resulted in slight surface finish removal should always be tested on a small area on-site for suitable results before overall use.

When choosing the most appropriate product for the desired result:

- For cleaning and degreasing light-to-heavily soiled stone, tile, masonry, and concrete – Test Enviro Klean® 2010 All Surface Cleaner®
- For common construction and atmospheric staining – Test Sure Klean® Light Duty Concrete Cleaner
- For efflorescence removal – Test Sure Klean® Vana Trol®

It is recommended that the selected cleaners always be used in the lowest possible concentration. 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 product and procedures for a particular project. See product literature for additional application and product information.

RECOMMENDATIONS: New Construction Cleaning

Recommendations for cleaning the manufactured stone veneers submitted by ProVia, Sugarcreek, OH are provided in the chart below. Recommendations are based on the cleaner and dilution that provided the best match to the uncleaned surface.

Sample	New Construction Cleaning	Maintenance Cleaning
"Silverlake" Chisel Cut	Sure Klean® Light Duty Concrete Cleaner (1:3) or (1:6) OR Sure Klean® Vana Trol® (1:8) or (1:10)	Enviro Klean® 2010 All Surface Cleaner® (1:10)
"Wellington" Chisel Cut		
"Chestnut" Dry Stack		
"Ottawa" Dry Stack		
"Whisperwood" Dry Stack		
"Beech" Edge Cut		
"Polar" Edge Cut		
"Tundra" Edge Cut		
"Mystic" LedgeStone		
"Osage" LedgeStone		
"Ohio Vintage" Limestone		
"Vail" Limestone		
"Alta" Natural Cut		
"Adobe Sands" Precisionfit		
"Arctic" Precisionfit		
"Denali" Ridge Cut		
"Rainer" Terra Cut		
"Summit" Terra Cut		

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.

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.

RECOMMENDATIONS: New Construction Cleaning (cont.)

Recommendations for cleaning the manufactured stone veneers submitted by ProVia, Sugarcreek, OH are provided in the chart below. Recommendations are based on the cleaner and dilution that provided the best match to the uncleaned surface.

Sample	New Construction Cleaning	Maintenance Cleaning
"Rushmore" LedgeStone	Sure Klean® Light Duty Concrete Cleaner (1:3) or (1:6)	Enviro Klean® 2010 All Surface Cleaner® (1:10)
"Fernwood" Natural Cut	Sure Klean® Light Duty Concrete Cleaner (1:6) OR Sure Klean® Vana Trol® (1:10)	
"Mountain" River Rock	Sure Klean® Light Duty Concrete Cleaner (1:6)	
"Slate" Terra Cut		
"Brindle" Chisel Cut	None	
"Olympus" Chisel Cut		
"Catawba" Dry Stack		
"Obsidian" Edge Cut		
"Pennsylvania" Fieldstone		
"Shenandoah" Fieldstone		
"Strathmore" Fieldstone		
"Oxford" LedgeStone		
"Allegheny" Limestone		
"Blue Ridge" Limestone		
"Ashworth" Natural Cut		
"Driftwood" Precisionfit		
"Onyx" Precisionfit		
"Castle Rock" Ridge Cut		
"Yosemite" Ridge Cut		
"Michigan" River Rock		
"Russet" Terra Cut		

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.

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.

SAMPLE PREPARATION: Treatment Application

Prior to treatment application, the submitted samples were cleaned with Enviro Klean® 2010 All Surface Cleaner® diluted with ten parts water. After the samples had dried for at least 24 hours, Sure Klean® Weather Seal Siloxane PD and Sure Klean® Weather Seal Siloxane WB Concentrate diluted with nine parts water were applied in a spraying application in accordance with the current PROSOCO, Inc. Product Data Sheet instructions. The treatments were allowed to cure for at least 72 hours prior to testing.

TEST METHODS: Protective Water Repellents

Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes

The water absorption tube test simulating wind driven rain conditions was performed on the submitted samples. Tests were run with 5.0-milliliter head pressures. Filled to 5.0 milliliters, a water absorption tube produces a 98 mph dynamic wind pressure. See RILEM II.4 Tech Note for additional information.

The ranking system used to evaluate the effectiveness of the products applied to each submitted sample is as follows:

AA = “Above Average” correlates to less than or equal to 20% of the maximum untreated absorption.

A = “Average” correlates to less than or equal to 50% of the maximum untreated absorption.

BA = “Below Average” correlates to greater than 50% of the maximum untreated absorption.

EXAMPLE: If RILEM tubes applied to an untreated sample result in loss of 5.0 ml of water or more, then:

A rating of **AA** *Above Average* water repellent performance would be reported for treatments which result in a loss of no more than:

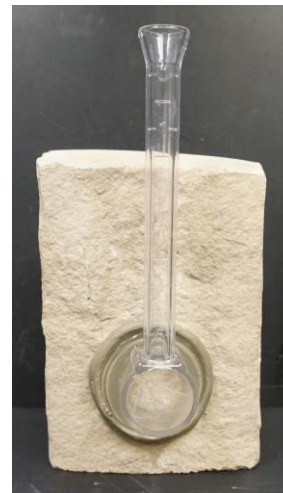
$$5.0 \text{ mL} \times 20\% = \mathbf{1.0 \text{ mL}}$$

A rating of **A** *Average* water repellent performance would be reported for treatments which result in a loss of no more than:

$$5.0 \text{ mL} \times 50\% = \mathbf{2.5 \text{ mL}}$$

A rating of **BA** *Below Average* water repellent performance would be reported for treatments which result in a loss of more than:

$$5.0 \text{ mL} \times 50\% = \mathbf{2.5 \text{ mL}}$$



TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents

Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes

AA = Above Average **A** = Average **BA** = Below Average

“Brindle” Chisel Cut	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.3	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Olympus” Chisel Cut	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.4	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Silverlake” Chisel Cut	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.6	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Wellington” Chisel Cut	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.2	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Catawba” Dry Stack	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.3	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes

AA = Above Average **A** = Average **BA** = Below Average

“Chestnut” Dry Stack	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.2	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Ottawa” Dry Stack	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.4	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Whisperwood” Dry Stack	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.3	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Beech” Edge Cut	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.0	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Obsidian” Edge Cut	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.1	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes

AA = Above Average **A** = Average **BA** = Below Average

“Polar” Edge Cut	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.6	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Tundra” Edge Cut	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.4	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Pennsylvania” Fieldstone	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.0	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Shenandoah” Fieldstone	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.4	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Strathmore” Fieldstone	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.4	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes

AA = Above Average **A** = Average **BA** = Below Average

“Mystic” LedgeStone	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.2	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Osage” LedgeStone	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.7	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Oxford” LedgeStone	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.6	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Rushmore” LedgeStone	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.4	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Allegheny” Limestone	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.3	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes

AA = Above Average **A** = Average **BA** = Below Average

“Blue Ridge” Limestone	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.4	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Ohio Vintage” Limestone	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.3	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Vail” Limestone	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.5	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Alta” Natural Cut	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.2	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Ashworth” Natural Cut	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.2	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes

AA = Above Average **A** = Average **BA** = Below Average

“Fernwood” Natural Cut	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.3	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Adobe Sands” Precisionfit	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.1	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Arctic” Precisionfit	Results in mL loss	<u>Ranking</u>
Untreated Control	-1.0	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Driftwood” Precisionfit	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.4	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Onyx” Precisionfit	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.2	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes

AA = Above Average **A** = Average **BA** = Below Average

“Castle Rock” Ridge Cut	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.1	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Denali” Ridge Cut	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.1	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Yosemite” Ridge Cut	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.1	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Michigan” River Rock	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.0	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Mountain” River Rock	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.3	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

Water Absorption Tube Test: Vertical RILEM II.4, 5.0 milliliters, 20 minutes

AA = Above Average **A** = Average **BA** = Below Average

“Rainer” Terra Cut	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.9	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Russet” Terra Cut	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.1	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Slate” Terra Cut	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.6	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

“Summit” Terra Cut	Results in mL loss	<u>Ranking</u>
Untreated Control	-0.2	--
Sure Klean® Weather Seal Siloxane PD	-0.0	<u>AA</u>
Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)	-0.0	<u>AA</u>

CONCLUSIONS: Protective Water Repellents

Based on the laboratory evaluations, all of the treatments provided good water repellent protection to the submitted manufactured stone veneers.

Although some of the untreated areas in the 20 minute RILEM test absorbed no water, the treatments applied to the manufactured stone veneers will likely provide long-term water repellent protection and help to prevent water-related staining.

Sure Klean® Weather Seal Siloxane PD and Sure Klean® Weather Seal Siloxane WB Concentrate diluted with 9 parts water did not cause any change to the appearance of the submitted samples.

RECOMMENDATIONS: Protective Water Repellents

Recommendations for water repellency for the manufactured stone veneers submitted by ProVia, Sugarcreek, OH are provided in the chart below. Recommendations are based on the treatment(s) that proved most effective.

Sample	Water Repellency
"Brindle" Chisel Cut	Sure Klean® Weather Seal Siloxane PD OR Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)
"Olympus" Chisel Cut	
"Silverlake" Chisel Cut	
"Wellington" Chisel Cut	
"Catawba" Dry Stack	
"Chestnut" Dry Stack	
"Ottawa" Dry Stack	
"Whisperwood" Dry Stack	
"Beech" Edge Cut	
"Obsidian" Edge Cut	
"Polar" Edge Cut	
"Tundra" Edge Cut	

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 treatment and procedure for a particular project. See product literature for additional application and product information.

RECOMMENDATIONS: Protective Water Repellents (cont.)

Recommendations for water repellency for the manufactured stone veneers submitted by ProVia, Sugarcreek, OH are provided in the chart below. Recommendations are based on the treatment(s) that proved most effective.

Sample	Water Repellency
"Pennsylvania" Fieldstone	Sure Klean® Weather Seal Siloxane PD OR Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)
"Shenandoah" Fieldstone	
"Strathmore" Fieldstone	
"Mystic" Ledge stone	
"Osage" Ledge stone	
"Oxford" Ledge stone	
"Rushmore" Ledge stone	
"Allegheny" Limestone	
"Blue Ridge" Limestone	
"Ohio Vintage" Limestone	
"Vail" Limestone	
"Alta" Natural Cut	
"Ashworth" Natural Cut	
"Fernwood" Natural Cut	
"Adobe Sands" Precisionfit	
"Arctic" Precisionfit	

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 treatment and procedure for a particular project. See product literature for additional application and product information.

RECOMMENDATIONS: Protective Water Repellents (cont.)

Recommendations for water repellency for the manufactured stone veneers submitted by ProVia, Sugarcreek, OH are provided in the chart below. Recommendations are based on the treatment(s) that proved most effective.

Sample	Water Repellency
"Driftwood" Precisionfit	Sure Klean® Weather Seal Siloxane PD OR Sure Klean® Weather Seal Siloxane WB Concentrate (1:9)
"Onyx" Precisionfit	
"Castle Rock" Ridge Cut	
"Denali" Ridge Cut	
"Yosemite" Ridge Cut	
"Michigan" River Rock	
"Mountain" River Rock	
"Rainer" Terra Cut	
"Russet" Terra Cut	
"Slate" Terra Cut	
"Summit" Terra Cut	

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 treatment and procedure for a particular project. See product literature for additional application and product information.



J. Lucas Comadoll
 Chemist

ALL SAMPLES SUPPLIED FOR THE ABOVE EVALUATION WILL BE DISPOSED OF THIRTY (30) DAYS AFTER THE ISSUE DATE OF THIS REPORT. IF SAMPLES ARE TO BE RETAINED FOR ADDITIONAL TESTING OR RETURNED TO THE SENDER, PROVIDE WRITTEN INSTRUCTIONS TO THE LABORATORY WITHIN THIRTY (30) DAYS OF THE ISSUE DATE OF THIS REPORT.

Recommendations made within this report are based on laboratory test applications and observations. Final determination of the suitability of a product and/or procedure should be made only after thorough job testing on actual surfaces.