

**FOR PROFESSIONAL USE ONLY**

## SPEC DATA SHEET

Calcium Silicate Cleaner (CSC) is a buffered, detergent-based solution specifically designed for removing excess mortar and jobsite debris from Arriscraft® Calcium Silicate materials. No scrubbing is necessary when used as directed. Always read the product data sheet, SDS, and do a test panel prior to start of project. After rinsing, the test area must be dry before evaluating final results.

### ADVANTAGES

- Spray-on/rinse-off application increases productivity and reduces labor when applied through an EC-Jet.
- Will not harm most glass or anodized window frames when used as directed.
- Reduces water-in-wall issues, such as efflorescence.
- No respirator required when used outdoors (other safety precautions apply).
- For use on vertical and horizontal surfaces.
- Effective way to remove large scale efflorescence.
- Biodegradable
- Top down application allows more product coverage on lower elevations.

### LIMITATIONS

- Should not be used on polished stone or lime-faced brick.
- Only apply to areas to be cleaned. Product can be corrosive to certain woods, metals, and plants.
- Avoid elevator doors as the coating will be affected by the chemical.
- Cover any building hardware, including brass, bronze, copper, gold, stainless or mild steel.
- Use low pressure rinsing on synthetic stone and surface dyed substrates

Flash Point:	N/D
Viscosity	Water thin
Decomposition Temp:	N/D
Oxidizing Properties:	N/D

### PREPARATION

Protect adjacent surfaces and surrounding building hardware not intended to be cleaned from exposure to the cleaning solution. Avoid direct contact with foliage. Cover landscape using plastic or wet the foliage with water before and after cleaning. Avoid wind drift on surrounding surfaces such as auto and pedestrian traffic. Elevator doors, stainless steel hardware, and brass coated parts should be covered. Generally, surfaces such as glass, anodized aluminum, brick, block, and limestone are not affected by CSC. Since every surface and situation can be unique, proper testing is required.

### SURFACE & AIR TEMPERATURES

Excessively high or low temperatures will produce poor results and possible harm. Best cleaning results are obtained when air and surface temperatures are above 40° Fahrenheit or less than 90° Fahrenheit. Do not clean when temperatures are below freezing or will be overnight. If freezing conditions exist, allow adequate time for the surface to thaw. If air temperatures exceed 90° Fahrenheit, flash cool the surface with water before applying product. Do not allow products to dry on the surface. Always rinse thoroughly while still wet.

### SAMPLE PANEL

Always clean a sample panel prior to the start of full scale cleaning operations. This should be completed well in advance of the start date of the final clean down of the project. Once the sample panel has been cleaned, it should be allowed to dry completely. Final approval of the sample panel as well as means and methods should be given. Pre-testing will determine suitability and effectiveness on each type of surface and stain designated to be cleaned. Pre-testing will also determine dwell times and number of applications required to achieve desired results. Pre-testing will show any potential or adverse reactions to adjacent surfaces. Allow test areas to thoroughly dry before evaluating final appearance and results.

### TECHNICAL DATA

Appearance:	Pale yellow/amber
Odor:	Strong scent
Physical State:	Liquid
pH:	<1.0
Boiling Point:	>210° F
Specific Gravity (water=1):	1.15 @ 77° F
Evaporation Rate:	As water
Solubility in Water:	Complete

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### **PRE-TESTING - WINDOWS, WINDOW FRAMES, DOOR FRAMES**

The best way to test windows, window frames, and door frames is to apply the suggested product to the end of a pencil eraser and place a small dot on each of the surfaces in question. Allow the product to dry on the surface (10 to 15 min). Rinse completely and check the results. If this produces any type of discoloration, do not allow the product to come in contact with these surfaces. They must be covered prior to cleaning.

### **SUITABLE SUBSTRATES**

This product, while it may not effectively clean all of these substrates, it will not harm these substrates either. Testing has been conducted and did not cause any damage during testing procedures.

- |                      |                    |
|----------------------|--------------------|
| ✓ Clay Brick         | ✓ Precast Concrete |
| ✓ Concrete Brick     | ✓ Limestone        |
| ✓ Glazed Brick       | ✓ Natural Stone    |
| ✓ Buff Brick         | ✓ Stone Veneer     |
| ✓ Red Brick          | ✓ Cast Stone       |
| ✓ CMU                | ✓ Hardscape        |
| ✓ Colored Block      | ✓ Clay Pavers      |
| ✓ Smooth Block       | ✓ Concrete Pavers  |
| ✓ Split Face Block   | ✓ Windows          |
| ✓ Burnished Block    | ✓ Colored Mortar   |
| ✓ Ground Faced Block | ✓ Hardy Board      |

While this list is extensive, there are other substrates that CSC may be suitable for that are not listed. Every cleaning situation is unique in its own way, so please follow all precaution, pre-testing and application instructions included in this Product Data Sheet.

### **SAFETY INFORMATION**

Always wear goggles and chemical resistant gloves when handling this product. Read the Safety Data Sheet for additional safety and health hazard information prior to use. Do not get in eyes, on skin, or on clothing. Do not wear contact lenses when using this product. If material comes in contact with clothing, wash before re-use. Do not dilute this product with any other product except clean water. Do not use any other application other than specified in the application instructions. Keep container closed when

not in use. Use with adequate ventilation. Use NIOSH/MSHA approved respiration devices when adequate ventilation is not available. Though the potential for fuming is minimal, take precautions to avoid exposing building occupants to fumes. Do not remove the label from the container. Dispose of empty containers in accordance with federal, state, and local requirements.

**CAUTION: KEEP AWAY FROM CHILDREN**

**VELOCITY EHS 24 HOUR EMERGENCY RESPONSE SERVICE NUMBER - 1-800-255-3294**

### **DILUTIONS**

CSC is diluted 4 parts water to 1 part CSC. An EC Jet is recommended to ensure both proper dilution and application of CSC. The ideal size of pressure washer for exterior clean: gas powered ranging from 3 to 6 gallons per minute pressure washer not to exceed 3,000 P.S.I. (For a clearer understanding of how to use an EC-Jet watch our video at [www.eacochem.com](http://www.eacochem.com).)

### **COVERAGE RATES**

Coverage rates with CSC using an EC Jet will vary from 100-200 sq. ft. per gallon depending on the surface porosity, texture, ambient temperature, craftsmanship, severity of mortar smears, and severity of other post construction staining.

### **APPLICATION INSTRUCTION**

#### **Low Pressure Application**

Any scraping or sanding should be done prior to cleaning.

1. Lightly pre-wet or flash-cool the surface (do not soak).
2. Apply CSC through an EC Jet to the entire section to be cleaned. Start from the top and work down. Allow CSC to dwell for 5-7 minutes.
3. Check mortar smears and tags to see if it crumbles easily.
4. Reapply CSC without rinsing between applications to melt the remaining mortar residue and extend dwell time. Once there is no foaming, the surface is ready to be rinsed.
5. With CSC, it is better to repeat the cleaning process than to be more aggressive with the initial cleaning.

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6. Begin rinsing from top down. Use long even strokes that overlap each other.

**Caution: Do not allow the product to dry on the surface. Use only a nylon brush on extreme areas when necessary.**

### RINSING

Proper rinsing techniques determine the final look and quality of the job.

1. Low pressure rinse only, less than 700 P.S.I. The EC-Jet can be used as long as the ball valve to CSC has been turned to the off position.
2. If using a pressure washer to rinse use a 40° wide nozzle from a minimum distance of 2' from the wall with no higher than 700 P.S.I.
3. Craftsmanship determines the appropriate pressure for rinsing. A thorough rinse job is recommended; however, our chemistry never requires flooding a wall. Pressures that mark or damage the surface should be avoided. When in doubt, follow the manufacturer's recommended P.S.I. for the substrate you are working on.
4. Always use overlapping horizontal passes to achieve a uniform appearance

**Note: Sensitive surfaces, i.e. sand faced brick, concrete brick, synthetic masonry and surface dyed substrates need to be rinsed at low pressures. Use the EC Jet with the ball valve turned to the off position for rinsing or a garden hose with nozzle. (The rinse pressure should be about 50 P.S.I.)**

### SPILL OR LEAK PROCEDURES

Check with state, local, or federal regulation for waste disposal methods in the area. Wear proper protective equipment while doing clean-up. For large spills, dike and contain for intended use. For residual, use a chemical absorbent material and place in an approved container for disposal. For small spills, use a chemical absorbent material and place in an approved container for disposal.

### CONTAINER HANDLING/STORAGE

Store product in a cool, dry place away from caustic-based materials. Vent the bung prior to opening completely. Keep container tightly closed when not in use. Wash thoroughly after handling. For best results, liquid should be 32° F or higher prior to use.

### INSTRUCTIONS IN CASE OF CONTACT OR EXPOSURE

**Eyes:** Flood with water for 15 minutes and seek medical attention.

**Skin:** Wash off with soap and water. Use a good emollient. If irritation develops, seek medical attention.

**Ingestion:** Drink lots of water to dilute. Do not induce vomiting. Seek immediate medical attention.

**Inhalation:** Move to fresh air. Call physician and seek medical attention if irritation develops.

### NOTICE

This product has been classified in accordance with the hazard criteria of the CFR.

### DISCLAIMER

The information herein is given in good faith, but no warranty, either expressed or implied is made. Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot be sure or guarantee these are the only hazards which exist.

### CUSTOMER SERVICE

Factory personnel are available for assistance Monday through Friday from 8am to 5pm EST at (724) 656-1055. Questions can also be sent to [info@eacochem.com](mailto:info@eacochem.com). A reply can be expected by the following business day or FaceTime and Call from the Wall is available while on jobsite.