

## RESTORATION DETERGENT - NON CORROSIVE

### DESCRIPTION AND USE

Heritage Restorer is a restoration detergent for historical or sensitive substrates. The product is based on our thoroughly developed non-corrosive technology. Cleaning power is achieved by a combination of over 25% surfactants, mild acids to melt metal and mineral oxide residue and water based solvents for hydrocarbon based residues.

### ADVANTAGES

- \* Excellent for removing virtually all stains including mineral and metal oxide stains.
- \* Reduces liability.
- \* Low odor means it can easily be used for interior cleaning
- \* Spray-on/spray-off application process improves productivity
- \* One product restoration simplifies the process and reduces protection requirements
- \* VOC compliant

### LIMITATIONS

- \* Rinse quickly when on glass and anodized aluminum.
- \* Do not use on polished stone and metallic oxide film used for tinting or self cleaning glass.
- \* Not suitable for certain low-fire tiles when using an extended dwell time (always pre-test small area first).
- \* Do not allow product to dry on surface. Rinse thoroughly.
- \* Not recommended for restoration of antique glass, brass, copper or bronze.

### TECHNICAL DATA

Appearance & Odor: Pale liquid, mild odor.  
Physical State: Liquid  
Vapor Pressure (mmHg): N/A  
Vapor Density (air=1): N/A  
Boiling Point: 212° F  
Freezing/Melting Point: N/A  
Specific Gravity (water =1): 1.18  
Solubility in Water: Complete

### PREPARATION

Protect adjacent and surrounding surfaces from exposure to the cleaning solution. Cover landscape with polyethylene or other proven protective material. Wetting down foliage with water before and after the cleaning process can be an option.

### 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 40° Fahrenheit or above. Do not clean when temperatures are below freezing or will be overnight. If freezing conditions exist, allow adequate time for 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.

### PRE-CLEANING TEST PANEL

Always test prior to beginning full-scale cleaning operations. Testing should confirm cleaning effectiveness on each type of surface and stain designated to be cleaned. Testing also determines the desired dwell time and any potential or adverse reactions with adjacent materials. Allow test panels to dry thoroughly before evaluating final appearance and results.

### PRE-CLEANING -

#### WINDOWS, WINDOW FRAMES, DOOR FRAMES

Best way to test windows, window frames and door frames are to apply the suggested product to the eraser end of a pencil and put one dot on each of the surfaces in question. Let product dry on the surface (10 - 15 minutes). Then rinse completely and check results. You should see no effect on the surface. If this test produces any type of discoloration, do not allow the product to come in contact with these surfaces. They must be covered prior to cleaning.

### DILUTION

Use undiluted (straight) for most applications.

### PROTECTION

Building surfaces such as glass, anodized aluminum, brick, block, and even limestone are usually not affected by Heritage Restorer. Follow best job site practices and safety precautions. Chances of causing harm when using accepted standard practices is minimal. Elevator doors, coated stainless steel hardware and brass coated parts should be covered.

### APPLICATION INSTRUCTIONS

Before applying, read "Preparation" section and "Precautionary Measures" under Safety Information. Recommended application is by low-pressure sprayer; brushing is not necessary.



## RESTORATION DETERGENT - NON CORROSIVE

One single undiluted application will remove many stains. For deep stain removal from porous surfaces, pre-wet (do not soak) the surface with water. Use a double undiluted application, spaced three to five minutes apart without rinsing in between the applications. Craftsmanship determines the appropriate pressures for rinsing. A thorough rinse job is always recommended, however, our chemistry never requires flooding a wall. Pressures that mark or damage the surface should be avoided. When in doubt, follow the manufacturers recommended P.S.I. for the substrate on which you are working. Use lower rinse pressures when cleaning sensitive substrates. Extended dwell time is very important when using this product. Do not allow product to dry on the surface. Always rinse thoroughly.

### COVERAGE RATES

Coverage rates vary from 75 – 250 sq. ft. per gallon depending on the surface porosity, texture, and severity of staining.

### SUITABLE SUBSTRATES

Brick, limestone, sandstone, concrete, precast, exposed aggregate, granite, unpolished marble, synthetic stone and terrazzo,. Always test product in a small area before beginning project.

### STAIN REMOVAL

Vanadium, manganese, metal or mineral oxide stains, pollution stains, concrete leaching, caulk bleed,

### SAFETY INFORMATION

Precautionary Measures: Always wear goggles and rubber gloves when handling this product. Do not get in eyes, on skin, or clothing. If material comes in contact with clothing, wash before reuse. Use adequate ventilation. Though the potential for fuming is minimal, take precautions to avoid exposing building occupants to fumes above PEL (permissible exposure limits) for product. Keep container closed after handling. Avoid drifting of material and rinse water onto autos and pedestrians by protecting or diverting such traffic. Do not use for any other applications other than specified. Dispose of any empty containers according to federal, state, and local requirements. Do not remove label. Read Material Safety Data Sheet for additional safety and health hazard information prior to use.

### SPILL OR LEAK PROCEDURES

Check with the state, local, or federal regulations for waste disposal methods in the area. Wear proper protective equipment while doing cleanup. For large spills, dike and contain

for intended use. For residual, use a chemical absorbent. For small spills, use a chemical absorbent product and place in approved container for disposal.

### CONTAINER HANDLING/STORAGE

Store the product in a cool dry place away from alkali / base. Do not allow this product to freeze. Vent bung cap before opening. Keep container tightly closed when not in use. Wash thoroughly after handling. Empty containers retain residue and vapors and must be handled as if full. Completely rinse drum prior to disposal.

### INSTRUCTIONS IN CASE OF CONTACT OR EXPOSURE

Eyes: Flood with water for fifteen minutes and seek medical attention. Remove contact lenses immediately.  
Skin: Wash off with soap and water. Use good skin emollient. If irritation develops, seek medical attention.  
Ingestion: Drink lots of water to dilute. Seek immediate medical attention. Do not induce vomiting.  
Inhalation: Remove 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 guarantee these are the only hazards that exist.

### CUSTOMER SERVICE

Factory personnel are available for assistance at 800-313-8505. They are available Monday through Friday, 8am to 5pm EST. Questions may also be sent via e-mail to [info@eacochem.com](mailto:info@eacochem.com). A reply can be expected the following business day.

