

Heavy Duty Restoration Cleaner

concentrated carbon & pollution remover

DESCRIPTION AND USE

Sure Klean® Heavy Duty Restoration Cleaner is a concentrated acidic cleaning compound for the removal of heavy atmospheric staining from unpolished masonry.

Used properly, Heavy Duty Restoration Cleaner dissolves heavy carbon and many other stains commonly found on masonry buildings in highly polluted areas. Dilute with water to produce a cost-effective, general-purpose restoration cleaner for brick, granite, sandstone, slate, terra cotta and many other masonry surfaces.

ADVANTAGES

- Cost-effective concentrate reduces shipping, storage and container disposal costs.
- Proven effective for cleaning the dirtiest buildings.
- Safer than sandblasting. Will not damage masonry when properly used.

Limitations

- Repeated application, or use when diluted with less than three parts fresh water, may damage some masonry surfaces. Use

Sure Klean® Light Duty Restoration Cleaner or Sure Klean® Restoration Cleaner where possible.

- Not for interior use. Use Sure Klean® Light Duty Restoration Cleaner.
- Not suitable for polished stone surfaces. Use Sure Klean® Light Duty Restoration Cleaner.

TYPICAL TECHNICAL DATA

FORM: Clear liquid
 SPECIFIC GRAVITY: 1.132
 TOTAL SOLIDS: NA
 pH: 2.2 @ 1:3 dilution
 WT./GAL.: 9.42 lbs.
 FLASH POINT: NA
 FREEZE POINT: ND

PREPARATION

Protect people, vehicles, property, plants and all nonmasonry surfaces from cleaner, rinse, fumes, and wind drift. Protect and/or divert auto and pedestrian traffic. This product is corrosive, etches glass and architectural aluminum and is harmful to wood, painted surfaces and foliage.

Complete cleaning before installing windows, doors, hardware, light fixtures, roofing materials and any other nonmasonry items. If such fixtures have been installed, protect before application of cleaner. All caulking and sealant materials should be in place and thoroughly cured before cleaning begins.

Avoid exposing building occupants to fumes. On occupied buildings, cover all windows, air intakes and exterior air conditioning vents. Shut down air handling equipment during cleaning and until surfaces are thoroughly dry. Fumes attack glass, metal and all other acid-sensitive surfaces.

Surface and Air Temperatures

Cleaning when temperatures are below freezing or will be overnight may harm masonry. Best cleaning results are obtained when air and masonry surface temperatures are 40°F (4°C) or above. If freezing conditions exist prior to application, let masonry thaw.

Equipment

Apply using an acid-resistant brush or low-pressure airless spray equipment with a maximum 50 psi. Equipment should be fitted with acid-resistant hoses and gaskets to avoid discoloration. Pressure water rinsing equipment with a fan-type spray tip of 15° providing 400 to 1200 psi at a flow rate of 4 to 6 gallons (15 to 23 liters) of water per minute proves most effective. Heated water (150-180°F; 65-82°C) may improve removal efficiency. Older, more delicate masonry surfaces may require reduced water rinsing pressure.

Heavy Duty Restoration Cleaner

Heavy Duty Restoration Cleaner is recommended for these substrates. Always test. Coverage is in sq.ft./m. per gallon of concentrate.

Substrate	Type	Use?	Coverage
Architectural Concrete Block	Burnished	no	NA
	Smooth	no	
	Split-faced	no	
	Ribbed	no	
Concrete	Brick	no	NA
	Tile	no	
	Precast Panels	no	
	Pavers	no	
	Cast-in-place	no	
Fired Clay	Brick	yes	125-400 sq.ft. 28-47 sq.m.
	Tile	yes	
	Terra Cotta	yes	
	Pavers	yes	
Marble, Travertine, Limestone	Polished	no	NA
	Unpolished	no	NA
Granite	Polished	no	NA
	Unpolished	yes	100-175 sq.ft. 9-16 sq.m.
Sandstone	Unpolished	yes	100-175 sq.ft. 9-16 sq.m.
Slate	Unpolished	yes	100-175 sq.ft. 9-16 sq.m.

Repeated applications may damage some surfaces.

Always test to ensure desired results. Coverage estimates depend on surface texture and porosity.

Pressure spray above 50 psi drives the chemicals deep into the surface, making it difficult to rinse completely, and may result in staining.

APPLICATION

Before use, read “Preparation” and “Safety Information.”

ALWAYS TEST each type of surface and stain before overall application to ensure suitability and desired results. Test using the following application procedures. Let test area dry thoroughly before inspection and approval.

Dilution

Heavy Duty Restoration Cleaner must be diluted with fresh water before application. Failure to dilute may result in bleaching of the masonry's natural color. When diluting, always pour cold water into bucket first, then carefully add product. Acidic materials will attack metal. Use polyethylene or polypropylene buckets only.

For porous masonry, dilute one part concentrate to 3 parts water, depending on test results.

For nonporous masonry (glazed brick, terra cotta), dilute one part concentrate to 4 to 6 parts water, depending on test results.

Application Instructions

1. Prewet the surface with clean water.
2. Apply the cleaner using a brush or low-pressure spray.
3. Let the cleaning solution stay on the surface for 3 to 5 minutes. Reapply. Gently scrub heavily soiled areas. NOTE: Do not let cleaner dry on the surface. If drying occurs, lightly wet treated surfaces with fresh water and reapply in a gentle scrubbing manner.
4. Rinse with low-pressure flood rinse to remove initial acidic residue with minimum risk of wind drift.
5. Rinse thoroughly using high-pressure spray, from the bottom of the treated area to the top covering each section of the surface with a concentrated stream of water. NOTE: To avoid streaking, keep wall below wet and rinsed free of cleaner and residues.

Clean Up

Clean tools and equipment using fresh water.

SAFETY INFORMATION

Danger. Poison. Causes severe burns that may not be immediately painful or visible. Exposures may be fatal. For use by professional applicators only. Keep out of the reach of children.

Precautionary Measures

Contains: Hydrofluoric acid, hydroxyacetic acid, sulfamic acid, nonionic surfactant. **Burns may not be immediately painful or evident and require immediate, specialized treatment.**

Exposures to large skin areas, ingestion, and respiratory exposures may be fatal. Onset of burn symptoms may be delayed as much as 24 hours. Do not get in eyes, on skin, or clothing. Avoid breathing

fumes and contact with mucous membranes. Keep container and dilution vessels tightly closed when not dispensing product.

Use only with adequate ventilation. Not for interior use. Do not breathe vapors or mist. Contact with metals in poorly ventilated areas can create potentially flammable or explosive hydrogen gas. If you notice irritating odor or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted, NIOSH-approved respirator during handling and application. Wear splash goggles or a face shield, protective clothing, gloves and shoes to prevent splash to eyes and skin. Wash thoroughly after handling. Refer to the MSDS and label for additional precautionary information.

First Aid

Ingestion: If conscious, give large amounts of milk or water and call a physician, emergency room or poison control center immediately. Do not induce vomiting.

Eye Contact: Rinse eyes and under lids thoroughly for 15 minutes. Get immediate medical assistance.

Skin Contact: Remove contaminated clothing and rinse thoroughly for 15 minutes. Immerse exposed area in 0.13% Zephiran Chloride or apply 2.5% Calcium Gluconate gel if available. Get medical attention. Launder contaminated clothing before reuse.

Inhalation: Remove to fresh air. Give artificial respiration if not breathing. Get immediate medical attention.

24-hour Emergency Information: INFOTRAC at 800-535-5053

Storage and Handling: Must be stored and transported upright with lid tightly in place. Store away from other chemicals, heat and open flames in cool, dry place with adequate ventilation. Do not use pressure to empty or use as a dilution or mixing vessel. Do not reuse or remove the label. Use only well maintained staging and scaffolding that is equipped with steel cable. Use polypropylene ropes and safety lines. Dilution and application equipment should be of polypropylene or polyethylene construction. Do not atomize during application. **If spilled**, follow all precautionary instructions. Keep from drains and soil. Contain, dilute with water, and neutralize with baking soda or lime. Dispose of contaminated absorbent, container and product in accordance with local, state and federal regulations.

Do not alter, mix with chlorine-type bleaches or other chemicals, or dilute product or use for applications other than specified.

Container Disposal: Hazardous when empty. Follow all precautionary instructions. Triple rinse with water and dispose of in a sanitary landfill (check local restrictions).

Shelf life is 3 years from the date of manufacture in tightly sealed, unopened container.

WARRANTY

The information and recommendations made are based on our own research and the research of others, and are believed to be

accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation encountered in masonry surfaces, job conditions and methods used. The purchasers shall make their own tests to determine the suitability of such products for a particular purpose.

PROSOCO, Inc. warrants this product to be free from defects. **Where permitted by law, PROSOCO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of merchantability or fitness for particular purpose.** The purchaser shall be responsible to make his own tests to determine the suitability of this product for his particular purpose. PROSOCO's liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which defective product has been applied. Acceptance and use of this product absolves

PROSOCO from any other liability, from whatever source, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability. This warranty may not be modified or extended by representatives of PROSOCO, its distributors or dealers.

CUSTOMER CARE

Factory personnel are available for product, environment and job-safety assistance with no obligation. Call 800-255-4255 and ask for Customer Care - technical support.

Factory-trained representatives are established in principal cities throughout the continental United States. Call Customer Care at 800-255-4255, or visit our web site at www.prosoco.com, for the name of the Sure Klean® representative in your area.