

PRODUCT DATA

HEAVY DUTY RESTORATION CLEANER

➤ **SURE-KLEAN** ➤

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 and glazed surfaces. Use Sure Klean® Light Duty Restoration Cleaner.

TECHNICAL DATA

FORM: Clear liquid
SPECIFIC GRAVITY: 1.132
FLASHPOINT: None
pH: 2.1 (@ 1:10 Dilution)
WT./VOL.: 9.42 lbs.

Heavy Duty Restoration Cleaner is recommended for these substrates. Always test.

Architectural Concrete Block	Smooth	No	N/A
	Spit-faced	No	
	Burnished	No	
	Ribbed	No	
Concrete	Brick	No	N/A
	Tile	No	
	Precast Panels	No	
	Pavers	No	
Fired Clay	Cast-in-place	No	300-600 sq/ft 28-47 sq/m
	Brick	Yes	
	Tile	Yes	
	Terra Cotta	Yes	
Marble, Travertine, Limestone	Pavers	Yes	N/A
	Polished	No	
Granite	Unpolished	No	N/A
	Polished	No	
Sandstone	Unpolished	Yes	400-800 sq/ft 37-56 sq/m
	Polished	Yes	
Slate	Unpolished	Yes	400-800 sq/ft 37-56 sq/m
	Polished	Yes	

Repeated applications may damage some surfaces.

Always test to assure desired results.

Coverage estimates depend on surface texture and porosity.

PREPARATION

Protect

Take precautions to avoid harm to building occupants, nearby property, foliage, metal and all nonmasonry and acid-sensitive surfaces that may come in contact with cleaner, rinse or fumes. Beware of wind drift, which may injure passersby, damage vehicles or adjacent properties. 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. Protect surrounding glass, metal, architectural aluminum, wood, painted surfaces, plant life and all nonmasonry or acid-sensitive materials from exposure to cleaning solution and fumes.

Complete cleaning before installation of windows, doors, hardware, light fixtures, roofing materials and any other nonmasonry items that may be damaged by cleaner. If such fixtures have been installed, protect before application of cleaner. All caulking



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and sealant materials should be in place and thoroughly cured before cleaning begins.

Avoid exposing building occupants to fumes. When applying outside occupied buildings, all windows, air intakes and exterior air conditioning vents should be covered (and air handling equipment shut down) throughout the application process and remain covered for 30 minutes following application or until surfaces are thoroughly dry.

Surface & Air Temperatures

To avoid harm to masonry, do not clean when temperatures are below freezing or will be overnight. 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, allow adequate time for masonry to 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 (15.14 to 22.71 liters) of water per minute, proves most effective. Heated water (150°F to 180°F [65°C to 82°C]) may improve removal efficiency. Older, more delicate masonry surfaces may require reduced water rinsing pressure.

Do not apply with pressure spray above 50 psi. Such application will drive the chemicals deep into the surface, making it difficult to rinse completely, and may result in staining.

APPLICATION INFORMATION

Before applying, read "Protect" In Preparation section and "Precautionary Measures" under Safety Information.

Pretesting

ALWAYS TEST each type of surface and stain before over-all application to ensure suitability and desired results. Apply test area according to the following application procedures. Allow area to dry thoroughly before inspection and approval.

Dilutions

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 water into bucket first, then carefully add product. Acidic materials will attack metal. Use polyethylene or rubber buckets only.

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

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

Application Instructions

1. Pre-wet the surface with clean water.
2. Apply the cleaner using a brush or low-pressure spray.
3. Allow the cleaning solution to remain on the surface for 3 to 5 minutes. Reapply. Gently scrub heavily soiled areas.
Note: Do not allow cleaner to 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.

Coverage Rates

Coverage rates listed in the chart will vary from 300-600 sq. ft./gal. depending on surface porosity, texture and severity of staining.

Cleanup

Clean tools and equipment using fresh water.

SAFETY INFORMATION

DANGER! **POISON!**

**Causes Severe Burns That May Not Be Immediately Painful Or Visible
May Be Fatal If Swallowed Or Inhaled
For Use By Professional Applicators Only
Keep Out Of The Reach Of Children
Read Precautionary Measures Carefully**

Precautionary Measures

Contains hydrofluoric acid. Do not get in eyes, on skin or clothing. Avoid breathing fumes and contact

with mucous membranes. Keep container tightly closed when not dispensing product.

Use only with adequate ventilation. Wash thoroughly after handling. Wear rainsuit of plastic, rubber or PVC, rubber boots and gloves, face shields and goggles to avoid splash to bare skin or eyes. Wear NIOSH/MSHA approved respirators for use with acids.

Use well-maintained staging and scaffolding equipped with steel cable. Acidic materials will attack nylon, cotton or hemp rope. Use polypropylene ropes and safety lines.

Do not alter, mix with chlorine-type bleaches or other chemicals. Do not use for applications other than specified. Do not remove label. Read Material Safety Data Sheet for additional safety and health hazard information.

First Aid Instructions

Eye Contact: Immediately flush with plenty of water for at least 30 minutes, keeping eyelids apart and away from eyeballs during irrigation. Get medical attention immediately, preferably an eye specialist. If a physician is not immediately available, apply 1 or 2 drops of 0.5% Pontocaine® Hydrochloride solution followed by a second irrigation for 15 minutes. Do not use the solution described for skin treatment. Irrigate with 1% calcium gluconate in normal saline for 1 to 2 hours to prevent or lessen corneal damage.

Skin Contact: Immediately pace under a safety shower or wash the burned area with a water hose. Remove all contaminated clothing while washing continuously. Keep washing with large amount of water for a minimum of 15 to 20 minutes. After washing, the burned area should be immersed in a solution of 0.13% Zephiran® Chloride. If immersion is not practical, towels should be soaked with the above solution and used as compresses for the burned area. The compresses should be changed every 2 minutes and continue until pain is relieved, up to 4 to 6 hours. Alternatively, 2.5% calcium gluconate gel may be promptly and continuously massaged into the burned area until the pain is relieved. Seek medical attention as soon as possible for all burns regardless of how minor they may appear initially.

Inhalation: Immediately remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration, but not mouth-to-mouth. Get medical attention.

Ingestion: Do not induce vomiting! Drink large amounts of water to dilute. Several glasses of milk

or milk of magnesia may be given for their soothing effect. Get immediate medical attention.

Fire Hazard and Explosion Data

Contact with metals produces extremely flammable and explosive hydrogen gas.

Spill or Leak Procedures

Wear acid-resistant protective clothing and complete protective equipment including rubber gloves, rubber boots, chemical goggles, respirator and face shield. Contain the spill, dilute with water and neutralize with soda ash or lime. Provide adequate ventilation. Allow powdered material to remain on spill for five to ten minutes and flush thoroughly with water. Keep material out of sewers, storm drains, surface waters and soil.

Container Handling and Storage

Store upright in a cool, dry place. Store away from all other chemicals and potential sources of contamination. Keep lights, fire and sparks away from container. Keep container tightly closed when not in use. Do not use pressure to empty container. Wash thoroughly after handling. Do not drop onto or slide across sharp objects. Do not use container as dilution or mixing vessel. Do not cut, grind or weld on or near container. Empty containers retain residue and vapors and must be handled as if full. Dispose of empty containers according to federal, state and local regulations.

Shelf Life

Heavy Duty Restoration Cleaner may be stored for up to 5 years in a 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, expressed 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 Inc., its distributors or dealers.

CUSTOMER SERVICES

Factory personnel are available for product, environment and job-safety assistance with no obligation. Call 785-865-4200 and ask for Customer Service.

Factory-trained representatives are established in principal cities throughout the continental United States. Call Customer Service at 785-865-4200, or visit our website at www.prosoco.com, for the name of the Sure Klean® representative in your area.

