

Ferrous Stain Remover

metallic stain remover for masonry

DESCRIPTION & USE

Sure Klean® Ferrous Stain Remover is a specialty masonry cleaning product that effectively removes iron, manganese, vanadium, straw stains, acid burns and other metallic discolorations from brick, stone, and masonry surfaces.

Many staining conditions are created by excessive moisture in the walls. To avoid this, protect open wall cavities from rainwater during construction and correct any structural problems that let water enter the walls.

New masonry cleaning is most effective within 14 to 28 days of installation. Letting excess mortar and grout stay longer results in a more difficult clean down and may cause more severe metallic staining.

ADVANTAGES

- Removes tough metallic stains quickly and easily.
- Powerful in concentrate; flexible in dilution.
- Water rinsable.

Limitations

- Sure Klean® Ferrous Stain Remover contains ingredients which may bleach colored mortar and some brick units. Always test dilution rates.
- Acidic contents and fumes may damage nonmasonry and acid-sensitive surfaces.
- Not recommended for interior use.

TYPICAL TECHNICAL DATA

FORM: Clear amber liquid
 SPECIFIC GRAVITY: 1.168
 TOTAL SOLIDS: NA
 pH: 0.17 in concentrate
 WT/GAL: 9.72 lbs.
 FLASH POINT: NA
 FREEZE POINT: 3°F (-16°C)
 SHELF LIFE: 3 years in tightly sealed, unopened container

PREPARATION

Protect people, vehicles, property, plants, metal, all nonmasonry and acid-sensitive surfaces from contact with cleaner, splash, rinse, residue, fumes and wind drift. Protect and/or divert auto and pedestrian traffic.

Clean masonry before installing windows, doors, finished flooring, metal fixtures, hardware, light fixtures, roofing materials and other nonmasonry items. If already installed, protect before application. Sure Klean® Strippable Masking is appropriate for use with this product to protect windows. Maintain sufficient ventilation to avoid buildup of potentially damaging fumes. All caulking and sealant materials should be in place and thoroughly cured before cleaning.

Before removing metallic discolorations, the masonry should be thoroughly dry to reduce recurrence of stains after cleaning.

Surface and Air Temperatures

Cleaning when temperatures are below freezing or will be overnight may harm masonry. If freezing conditions have existed, let the masonry thaw before cleaning.

Equipment

Apply with low-pressure spray (50 psi max) or densely-packed, soft-fibered masonry washing brush. Pressure spray above 50 psi drives the chemicals deep into the surface, making complete rinse difficult. Fit equipment with acid-resistant hoses and gaskets to avoid discoloration.

Rinse with enough water and pressure to flush spent cleaner and dissolved soiling from the masonry surface and surface pores without damage. Inadequate rinsing leaves residues which may stain the cleaned surface.

Ferrous Stain Remover 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		
	Split-faced		
	Ribbed		
Concrete	Brick	no	NA
	Tile		
	Precast Panels		
	Pavers Cast-in-place		
Fired Clay	Brick	yes	200-400 sq.ft. 19-37 sq.m.
	Tile	yes	
	Terra Cotta	yes	
	Pavers	yes	
Marble, Travertine, Limestone	Polished	no	NA
	Unpolished	no	NA
Granite*	Polished	no	NA
	Unpolished	yes	200-400 sq.ft. 19-37 sq.m.
Sandstone	Unpolished	yes	200-400 sq.ft. 19-37 sq.m.
Slate*	Unpolished	yes	200-400 sq.ft. 19-37 sq.m.

*May alter masonry color. Always test to ensure desired results. Coverage estimates depend on surface texture, porosity and soiling conditions.

Masonry-washing equipment generating 400-1000 psi with a water flow rate of 6-8 gallons per minute is the best water/pressure combination for rinsing porous masonry. Use a 15-45° fan spray tip. Heated water (150-180°F; 65-82°C) may improve cleaning efficiency. Use adjustable equipment for reducing water flow-rates and rinsing pressure as needed for sensitive surfaces.

Rinsing pressures greater than 1000 psi and fan spray tips smaller than 15° may permanently damage sensitive masonry. Water flow-rates less than 6 gallons per minute may reduce cleaning productivity and contribute to uneven cleaning results.

APPLICATION

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

ALWAYS TEST each type of masonry and each type of stain for suitability, dilution and results before overall application. Use the following application instructions. Let the surface dry thoroughly before inspection.

Dilutions

Ferrous Stain Remover can be diluted with 1 part concentrate and up to 3 parts fresh water or applied in concentrate, depending on test results. Always pour cold water into empty bucket first, then carefully add product. Never use hot water. Handle in polypropylene buckets only. Acidic materials and fumes attack metal.

When calculating the volume of cleaner required for porous, textured surfaces, assume 50 square feet per gallon of prepared cleaner. For dense, smooth surfaces, assume up to 150 square feet per gallon of prepared cleaner. The coverage rate chart assumes an average coverage rate of 100 square feet per gallon of prepared cleaner.

Application Instructions

1. Working from the bottom to the top, always prewet the masonry surface with clean water.
2. Apply prepared cleaner directly to the masonry surface.
3. Let the cleaner stay on the surface for 3-5 minutes. Do not let it dry into the masonry between applications or before final rinse. If treated surfaces are left unattended, keep people away from the cleaner.
4. Reapply cleaner and rinse with fresh water from the bottom to the top. Thorough rinsing is important to get all residues off the surface. If pressure rinsing equipment is not available, rinse thoroughly with clean water. Brush the wall while rinsing.

Cleanup

Clean tools and equipment using fresh water.

SAFETY INFORMATION

Danger. Causes severe burns. Harmful or fatal if swallowed. Harmful if inhaled. Keep out of the reach of children. Read full label for precautionary instructions before use.

Precautionary Measures

Contains: Phosphoric, sulfuric, sulfamic and oxalic acids. Do not get in eyes, on skin, or clothing. Avoid breathing fumes and contact with mucous membranes. Keep container, dilution and application vessels tightly closed when not dispensing product.

Use only with adequate ventilation. Do not breathe vapors or mist. Ensure fresh air entry during application. When applying to exteriors of occupied buildings, make sure all windows, exterior intakes and air conditioning vents are covered and air handling equipment are shut down during application. 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. 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: Call a physician, emergency room or poison control center immediately. Do not induce vomiting. Get immediate medical attention.

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

Skin Contact: Remove contaminated clothing and rinse thoroughly for 15 minutes. 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 1-800-535-5053

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 atomize. Do not use pressure to empty or use as a dilution or mixing vessel. Do not reuse container or remove the label. Scaffolding, stages and support equipment must be constructed of compatible materials. Dilution and application equipment should be of polypropylene or polyethylene construction.

If spilled, follow all precautionary instructions. Keep from drains and soil. Contain 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. Rinse completely with water and dispose of in a sanitary landfill (check local restrictions).

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.

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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.