

# 101 Lime Solvent

concentrated cleaner for new masonry

## DESCRIPTION AND USE

Sure Klean® 101 Lime Solvent is a concentrated acidic cleaner for dark-colored brick and tile surfaces which are not subject to metallic oxidation. Safely removes excess mortar and construction dirt.

## ADVANTAGES

- Removes construction dirt and excess mortar with simple cold water rinse.
- Safer than muriatic acid on colored mortar and dark-colored new masonry surfaces.
- Proven effective since 1954.

## Limitations

- Not generally effective in removal of atmospheric stains and black carbon found on older masonry surfaces. Use the appropriate Sure Klean® restoration cleaner to remove atmospheric staining from older masonry surfaces.
- Not for use on polished natural stone.

## TYPICAL TECHNICAL DATA

FORM: Clear, slightly pale amber solution with a pungent odor  
SPECIFIC GRAVITY: 1.12  
TOTAL SOLIDS: N/A  
pH: 0.50 @ 1:6 dilution  
WT./GAL.: 9.39 lbs.  
FLASH POINT: N/A  
FREEZE POINT: < -22°F (< -30°C)

## PREPARATION

Protect people, vehicles, property, metal, painted surfaces, plants and other nonmasonry materials from product, splash, rinse, wind drift and fumes. When working over traffic, clean when traffic is at a minimum. Protect or divert traffic if necessary.

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

## Surface Preparation

New brick and tile surfaces clean most effectively if the cleaning is done within 14-28 days of installation. Mortar and grout smears left on the surface longer result in a more difficult clean down and may cause undesirable results. Cleaning high-strength mortar/grout within seven days improves results.

NOTE: Excessive moisture in the wall contributes to efflorescence and other staining. Always protect open wall cavities from rain during construction.

## Surface and Air Temperatures

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

## Equipment

Apply with low-pressure spray (50 psi max) or densely-packed, soft-fibered masonry washing brush. Rinse with high-pressure spray (400-800 psi).

Rinsing from the bottom up, use sufficient water pressure and water volume to thoroughly flush all dissolved soiling and residual cleaner from the pores of treated surfaces. Excessive pressure and water volume may combine to damage soft or deteriorated surfaces. Always test to determine optimal rinsing pressures and

**101 Lime Solvent 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      | yes  | 500-900 sq.ft.<br>46-84 sq.m. |
|                               | Smooth         | yes  |                               |
|                               | Split-faced    | yes  |                               |
|                               | Ribbed         | yes  |                               |
| Concrete*                     | Brick          | yes  | 500-900 sq.ft.<br>46-84 sq.m. |
|                               | Tile           | yes  |                               |
|                               | Precast Panels | yes  |                               |
|                               | Pavers         | yes  |                               |
|                               | Cast-in-place  | yes  |                               |
| Fired Clay                    | Brick          | yes  | 500-900 sq.ft.<br>46-84 sq.m. |
|                               | Tile           | yes  |                               |
|                               | Terra Cotta    | yes  |                               |
|                               | Pavers         | yes  |                               |
| Marble, Travertine, Limestone | Polished       | no   | NA                            |
|                               | Unpolished     | no   | NA                            |
| Granite                       | Polished       | no   | NA                            |
|                               | Unpolished     | yes  | 700-900 sq.ft.<br>65-84 sq.m. |
| Sandstone                     | Unpolished     | yes  | 500-900 sq.ft.<br>46-84 sq.m. |
| Slate                         | Unpolished     | yes  | 700-900 sq.ft.<br>65-84 sq.m. |

\*Repeated applications may damage surfaces. Sure Klean® Custom

Masonry Cleaner is a more appropriate product.

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

water volumes. Pressure rinsing equipment providing at least 400 psi at 4-6 gpm delivered through a 15-40 degree fan spray tip often produces best cleaning results.

## APPLICATION

Before use, read "Preparation" and "Safety Information."

**ALWAYS TEST** (minimum 4 ft. by 4 ft. area) for suitability and results before overall application. Test each type of masonry and each type of stain. Let test area dry 3 - 7 days before inspection. Test using the following application instructions. Keep the test panel available for comparison throughout the cleaning project.

### Dilution

Dilute one part product with between 4 and 8 parts clean water, based on test results. Adjust dilution rate according to test results. More porous masonry and high-strength mortar/grout will require stronger solutions. Clean glazed surfaces with the mildest solution possible to avoid harm. 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.

Do not alter or mix with chlorine-type bleaches or other chemicals (may release toxic gases). Do not dilute product except as specified on label. Do not use for applications other than specified.

### Application Instructions

#### EXTERIOR APPLICATION

Test thoroughly before cleaning.

1. Prewet a large area with fresh water.
2. Using a densely-packed, soft-fibered masonry washing brush, or low-pressure spray (50 psi maximum), apply the diluted solution freely.
3. Let cleaning solution stay on the wall for 1 - 3 minutes. Don't let cleaner dry into the masonry. This may leave residue and stains.
4. Immediately reapply cleaning solution and scrape off heavy buildup of excess mortar using a wooden scraper or piece of brick. Take care not to harm the masonry surface.
5. Rinse thoroughly with fresh water, removing all cleaning compound, free sand, loose material and debris. Thorough rinsing is extremely important to ensure that all residues are removed from the porous masonry.
6. Reapply as required following steps 1 through 5.

**Caution:** Multiple applications may affect the mortar color. Fresh-water rinse the surfaces below areas being cleaned to prevent streaking.

Do not apply Sure Klean® 101 Lime Solvent with pressure spray above 50 psi. This drives the chemicals deep into the surface, making complete rinse difficult. Test spray equipment for compatibility and to avoid discoloration.

### Interior Application

Proper ventilation is necessary. Test thoroughly. Follow preceding preparation and cleaning procedures for exteriors. Rinse thoroughly with fresh water using a sponge or soft-fibered brush. If there isn't enough water for complete rinsing, use neutralizing rinse following this procedure:

1. Rinse with clear water.
2. Apply neutralizing rinse of 2 ounces baking soda to 1 gallon water.
3. Saturate. Leave solution on surface 3-5 minutes.
4. Apply final rinse of clear water.

### Clean Up

Clean tools and equipment using fresh water.

### Metallic Discoloration

Certain types of light or dark-colored brick and structural tile surfaces may be subject to metallic discolorations. If discolorations are apparent in the stone or brick areas before or after testing, test Sure Klean® Vana Trol® on the masonry surface. Follow the procedures and dilutions on the Vana Trol® label and Product Data Sheet.

## SAFETY INFORMATION

**Danger.** Poison. Causes severe burns. May be fatal if swallowed. Harmful if inhaled. Keep out of reach of children.

### Precautionary Measures

**Contains:** Hydrochloric 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.** 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 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 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 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. This product will attack nylon, cotton and hemp roping. Use polypropylene ropes and safety lines. Dilution and application equipment should be of polypropylene or polyethylene construction. **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. 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](http://www.prosoco.com), for the name of the Sure Klean® representative in your area.