

## MASONRY DETERGENT

### DESCRIPTION & USE

SOS-50 is a buffered detergent-based solution designed for the cleaning of new masonry structures. SOS-50 can be used on virtually any type of brick, block, stone, cast stone, and pre-cast. No scrubbing is necessary.

### ADVANTAGES

- \* Not regulated by the D.O.T.
- \* Organic salt with a low pH
- \* Low Odor
- \* Similar performance to NMD80, without HCL
- \* Non-fuming
- \* Improves productivity
- \* No V.O.C.'s
- \* Can be used with a low pressure rinse
- \* Safe for most sensitive colors & substrates

### LIMITATIONS

- \* Product is very mild but may be corrosive to certain woods, metals, and plants. Covering may be required. Always test.
- \* Avoid elevator doors as the coating will be affected by the chemical.
- \* Cover any building hardware, including brass, bronze, copper, gold, stainless steel or mild steel.
- \* Use low pressure rinsing on synthetic stone and surface dyed substrates. Do not brush-apply the product.
- \* Do not use on lime-face brick.

### TECHNICAL DATA

Appearance & Odor: Light amber liquid, mild odor.

Physical State: Liquid

Vapor Pressure (mmHg): As water

Vapor Density (air=1): As water

Boiling Point: 212° F

Freezing/Melting Point: N/A

Specific Gravity (water =1): 1.11

Evaporation Rate: N/A

Solubility in Water: Complete

### PREPARATION

Protect adjacent and surrounding building hardware surfaces not intended to be cleaned from exposure to the cleaning solution. Avoid direct contact with foliage. Cover landscaping using plastic or wet the foliage with water before and after the cleaning process.

### 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-TESTING

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. Test also to determine the desired surface contact time and any cleanup of new potential for adverse reactions with adjacent materials. Allow test panels to dry thoroughly before evaluating final appearance and results.

### SUITABLE SUBSTRATES

All brick, block, tile, stone (real and synthetic), mortar, pre-cast, concrete brick, pavers, stamped wet cast products, and concrete.

### DILUTION

- 4:1 is the standard dilution on most surfaces
- 15:1 - 30:1 for Tilt-Up concrete

**Note:** Dilutions will vary based on application and surface to be cleaned

### COVERAGE RATES

Coverage rates will vary from 100-200 sq. ft. per gallon depending on the surface porosity, texture and severity of staining.

### PRE- APPLICATION INFORMATION

Before applying, read "Protect" in the Preparation section and "Precautionary Measures" under Safety Information. Heavy clumps should be removed while chemical soaks on the wall. Use a steel garden edger, carbide block or brick to remove chunks. Scrape after detergent application. Hold the edger at a narrow angle to the wall and use a quick chop to remove the obstruction.

### APPLICATION INSTRUCTIONS

Pre-wet the surface with water. Apply SOS-50 to the substrate at a 4:1 rate using the EC Jet attachment. The EC Jet automatically dilutes the product (don't pre-dilute when using EC Jet). Allow SOS-50 to dwell for 5-7 minutes. Reapply SOS-50 without rinsing between applications.

## MASONRY DETERGENT

Last, rinse the substrate using appropriate pressure for the situation. Low pressure for sensitive, colored surfaces. 40 degree tip for standard brick, block, or stone.

**Caution:** *Do not allow the product to dry on a surface.*

### DOWN STREAM PROJECTION

Downstream projection allows for greater distance using high concentrations. Useful for dealing with tilt up concrete for removal of construction dirt and an even surface appearance. Always make sure the dilution is set appropriately.

### PROTECTION

Building surfaces such as glass, anodized aluminum, virtually any kind of brick or block, even limestone, is usually not affected by SOS-50. Follow proper job site conduct and safety precautions. Chances of causing harm when using accepted standard practices is minimal. Elevator doors, some imported stainless steel hardware and some brass coated parts need to be covered.

### PRE-CAST CONCRETE

Dilutions will vary according to surface finish. A downstream projection nozzle is appropriate for chemical application. Cleanup entails a uniform building face without surface changes, not removal of mortar smears. Apply a light coat of water from top to bottom just to the point of run (except in the case of tall structures with multiple levels, in which case clean one section at a time). Follow this with a quick, even application of NMD80.

### RINSING

Rinsing determines the quality of the job. Generalized rules of rinsing would include:

- 1 - Use a wide tip no less than 25 degrees. A 40-degree tip is recommended especially for sand faced or other special brick surfaces to reduce the potential for surface damage. Observe distance from the wall to avoid potential damage to the mortar joints. Rotating zero degree nozzles can do great harm to mortar joints and masonry; keep nozzles well back from surface.
- 2 - 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.

3 - Always use overlapping passes to achieve a uniform appearance.

4 - Always rinse from top down to prevent drying and to combat operator fatigue.

**Note:** *Concrete brick, synthetic masonry and surface dyed substrates need to be rinsed at low pressures (Ex. Standard garden hose with nozzle).*

### SAFETY INFORMATION

Precautionary Measures: Always wear goggles and rubber gloves when handling this product. Keep off of skin and clothing. If material comes in contact with clothing, wash before re-use. Do not dilute SOS-50 with any other product except water. Do not use for any other applications other than specified. Do not remove label. Avoid elevator doors as the coating can be affected. Read Material Safety Data Sheet for additional safety and health hazard information prior to use. Do not get in eyes, on skin or clothing. Avoid breathing fumes. Keep container closed when not in use. Use with adequate ventilation. Applicators should wear a rain suit (plastic, rubber or PVC), boots, gloves, face shields and/or goggles to avoid splash to bare skin and eyes. MIOSH/MSHA approved respiration for use with acids if adequate ventilation is unavailable. Though the potential for fuming SOS-50 is minimal, take precautions to avoid exposing building occupants to fumes. Dispose of empty containers according to federal, state, and local requirements. Avoid drifting of material or rinse water onto autos and pedestrians by protecting or diverting such traffic.

### 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 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.



## MASONRY DETERGENT

### INSTRUCTIONS IN CASE OF CONTACT OR EXPOSURE

Eyes: Flood with water fifteen minutes and seek medical attention. Remove contact lenses immediately.

Skin: Wash off with soap and water. Remove contaminated clothing.

Ingestion: Drink lots of water to dilute. Do not induce vomiting. Seek immediate medical attention.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen and call a physician.

### 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 be sure or guarantee these are the only hazards which exist.

### CUSTOMER SERVICE

Factory personnel are available for assistance at 724-656-1055 and will send you additional information on products as necessary.

