THE WAVE OF THE FUTURE

EaCo Chem

SOS™-50
NEW MASONRY DETERGENT

FOR PROFESSIONAL USE ONLY

SPEC DATA SHEET

SOS-50 is a buffered new masonry cleaner designed for removing mortar smears off of new masonry structures. SOS-50 can be used on virtually any type of brick, block, stone, cast stone, and pre-cast. SOS-50 requires no scrubbing to be effective.

Advantages

- Not regulated by the D.O.T.
- Low odor
- Similar performance to NMD 80, only without the Hydrochloric Acid
- Non-fuming
- Improved productivity

Limitations

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

**For information about soft metals, please see our soft metal Issue Statements at our website for more complete guidance.*

Technical Data

Appearance:	Light amber liquid
Odor:	Mild odor
Physical State:	Liquid
pH:	>1.0
Boiling Point:	>212° F
Specific Gravity (water=1):	1.11 @ 77° F
Evaporation Rate:	N/D
Solubility in Water:	Complete
Flash Point:	N/D
Viscosity	−Water thin
Decomposition Temp:	N/D
Oxidizing Properties:	N/D

Preparation

Protect adjacent surfaces and surrounding building hardware not intended to be cleaned from exposure to the cleaning solution. Avoid direct contact with foliage. Cover landscape using plastic or wet the foliage with water before and after cleaning. Avoid wind drift on surrounding surfaces such as auto and pedestrian traffic. Elevator doors, stainless steel hardware, and brass coated parts should be covered. Generally, surfaces such as glass, anodized aluminum, brick, block, and limestone are not affected by SOS-50. Since every surface and situation can be unique, proper testing is required.

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 above 40° Fahrenheit or less than 90° Fahrenheit. Do not clean when temperatures are below freezing or will be overnight. If freezing conditions exist, allow adequate time for the 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.

Sample Panel

Always clean a sample panel prior to the start of full scale cleaning operations. This should be completed well in advance of the start date of the final clean down of the project. Once the sample panel has been cleaned, it should be allowed to dry completely. Final approval of the sample panel as well as means and methods should be given. Pre-testing will determine suitability and effectiveness on each type of surface and stain designated to be cleaned. Pre-testing will also determine dwell times and number of applications required to achieve desired results. Pre-testing will show any potential or adverse reactions to adjacent surfaces. Allow test areas to thoroughly dry before evaluating final appearance and results.

Pre-Testing - Windows, Window Frames, Door Frames

The best way to test windows, window frames, and door frames is to apply the suggested product to the end of a pencil eraser and place a small dot on each of the surfaces in question. Allow the product to dry on the surface (10 to 15 min). Rinse completely and check the results. If this produces any type of discoloration, do not allow the product to come in contact with these surfaces. They must be covered prior to cleaning.

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Suitable Substrates

The following substrates have been tested on and are deemed suitable under standard conditions. Pre-testing is always recommended prior to full-scale cleaning.

- ✓ Clay Brick
- ✓ Concrete Brick
- ✓ Glazed Brick
- ✓ Buff Brick
- ✓ Red Brick
- ✓ CMU
- ✓ Colored Block
- ✓ Smooth Block
- ✓ Split Face Block
- ✓ Burnished Block
- ✓ Ground Faced Block
- ✓ Precast Concrete
- ✓ Limestone
- ✓ Sandstone
- ✓ Natural Stone
- ✓ Stone Veneer
- ✓ Cast Stone
- ✓ Hardscape
- ✓ Clay Pavers
- ✓ Concrete Pavers
- ✓ Windows
- ✓ Colored Mortar

While this list is extensive, there are other substrates that SOS-50 may be suitable for that are not listed. Every cleaning situation is unique in its own way, so please follow all precaution, pre-testing and application instructions included in this Product Data Sheet.

Safety Information

Always wear goggles and chemical resistant gloves when handling this product. Read the Safety Data Sheet for additional safety and health hazard information prior to use. Do not get in eyes, on skin, or on clothing. Do not wear contact lenses when using this product. If material comes in contact with clothing, wash before re-use. Do not dilute this product with any other product except clean water. Do not use any other application other than specified in the application instructions. Keep container closed when not in use. Use with adequate ventilation. Use NIOSH/MSHA approved respiration devices when adequate ventilation is not available. Though the potential for fuming is minimal, take precautions to avoid exposing building occupants to fumes. Do not remove the label from the container. Dispose of empty containers in accordance with federal, state, and local requirements.

CAUTION: KEEP AWAY FROM CHILDREN
VELOCITY EHS 24 HOUR EMERGENCY RESPONSE SERVICE NUMBER - 1-800-255-3294

Dilutions

Standard dilution of SOS-50 is 4 parts water to 1 part SOS-50. An EC Jet is recommended to ensure both proper dilution and application of SOS-50. Ideal size of pressure washer for exterior clean: gas powered 3 to 5 gallon or 4 to 6 gallon per minute pressure washer not to exceed 3,000 P.S.I. (For a clearer understanding of how to use an EC Jet watch our video at www.eacochem.com.)

Coverage Rates

Coverage rates will vary from 100-200 sq. ft. per gallon depending on the surface porosity, texture, ambient temperature, craftsmanship, severity of mortar smears, and severity of other post construction staining.

Application Instruction

Low Pressure Application

1. Lightly pre-wet or flash-cool the surface (do not soak).
2. Apply SOS-50 through an EC Jet or low pressure sprayer to the entire section to be cleaned. Start from the top and work down. Allow SOS-50 to dwell for 5-7 minutes. White foam signals product activation.
3. After the initial application of chemical, scrape the large chunks of mortar with a long-handled scraper.
4. Check mortar smears and tags to see if it crumbles easily.
5. Reapply SOS-50 without rinsing between applications to melt the remaining mortar residue and extend dwell time. Once there is no foaming, the surface is ready to be rinsed.

Sensative Surfaces

When cleaning sensitive surfaces use the standard 4 parts water to 1 part SOS-50. Alwasy use the EC Jet to apply and rinse the substrate. Use care when using a scraper to remove the chunks. Before rinsing, use rubber gloves and lightly rub the mortar smears. The mortar

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should crumble easily within 5 minutes of application. If there are issues removing excess mortar; scrape more thoroughly, or use two or more applications if the sample panel test showed both the need as well as no affect on the surface. Water run-down keeps the wall wet, allowing for a larger work area.

Note: Sensitive surfaces, i.e. sand faced brick, concrete brick, synthetic masonry and surface dyed substrates need to be rinsed at low pressures. Use the EC Jet with the ball valve turned to the off position for rinsing or a garden hose with nozzle. (The rinse pressure should be about 50 P.S.I.)

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

Rinsing

Proper rinsing techniques determine the final look and quality of the job. Generalized rules of rinsing would include:

1. Low pressure rinse. The EC jet can be used as long as the ball valve to NMD 80 has been turned to the off position.
2. If using a pressure washer to rinse use a 40-degree nozzle is reduce the potential for surface damage. Stay at least 8”-12” from the wall to avoid potential **damage to the mortar joints. Do not use a zero-degree nozzle.**
3. Craftsmanship determines the appropriate pressure for rinsing. A thorough rinse job is recommended; however, our chemistry never requires flooding a wall. Pressures that mark or damage the surface should be avoided. When in doubt, follow the manufacturer’s recommended P.S.I. for the substrate you are working on.
4. Always use overlapping horizontal passes to achieve a uniform appearance

Spill or Leak Procedures

Check with state, local, or federal regulation for waste disposal methods in the area. Wear proper protective equipment while doing clean-up. For large spills, dike and contain for intended use. For residual, use a chemical absorbent material and place in an approved container for disposal. For small spills, use a chemical absorbent material and place in an approved container for disposal.

Container Handling/Storage

Store product in a cool, dry place away from caustic-based materials. Vent the bung prior to opening completely. Keep container tightly closed when not in use. Wash thoroughly after handling. For best results, liquid should be 32° F or higher prior to use.

Instructions in Case of Contact or Exposure

Eyes: Flood with water for 15 minutes. If irritation develops, seek medical attention.
Skin: Wash off with soap and water. Follow with a good emollient. If irritation develops, seek medical attention.
Ingestion: Drink lots of water to dilute. Do not induce vomiting. Seek immediate medical attention.
Inhalation: Move to fresh air. If irritation develops, seek medical attention.

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 Monday through Friday from 8am to 5pm EST at (724) 656-1055. Questions can also be sent to info@eacochem.com. A reply can be expected by the following business day or FaceTime and Call from the Wall is available while on jobsite.