

## NEW MASONRY DETERGENT

### DESCRIPTION AND USE

NMD 80 is a buffered detergent-based solution designed for the cleaning of new masonry structures. NMD 80 can be used on many types of brick, block, unpolished stone, cast stone, and pre-cast. No scrubbing is necessary.

### ADVANTAGES

- \* Spray-on/spray-off application Increases square foot production and reduces labor.
- \* Top-down rinsing dramatically reduces total water into the wall.
- \* Detergent means fewer applications
- \* No respirator needed when spraying outside
- \* Reduces water-in-wall problems, such as efflorescence
- \* Will not harm glass and anodized window frames when used as directed.

### LIMITATIONS

- \* Not to be used on polished stone
- \* Product is very mild but may be corrosive to certain woods, metals, and plants. Covering may be required.
- \* 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.

### TECHNICAL DATA

Appearance & Odor: Amber color, mild biting odor.

Physical State: Liquid

pH: 1.0

Vapor Pressure (mmHg): As water

Vapor Density (air=1): As water

Boiling Point: 210 deg F

Freezing/Melting Point: N/A

Specific Gravity (water =1): 1.15

Evaporation Rate: >1 As water

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.

### SURFACES & 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° F 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° F, flash cool the surface with water or employ a spray bar below the area to be cleaned before applying product. Do not allow product to dry.

### PRE-CLEANING TEST PANEL

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. Testing also determines the desired dwell time and any potential or adverse reactions with adjacent materials. Allow test panels to dry thoroughly before evaluating final appearance and results.

### PRE-CLEANING - WINDOWS, WINDOW FRAMES, DOOR FRAMES

Best way to test windows, window frames and door frames are to apply the suggested product to the eraser end of a pencil and put one dot on each of the surfaces in question. Let product dry on the surface (10 - 15 minutes). Then rinse completely and check results. You should see no effect on the surface. If this test produces any type of discoloration, do not allow the product to come in contact with these surfaces. They must be covered prior to cleaning.

### SUITABLE SUBSTRATES

All brick, block, tile, stone (real and synthetic), mortar, pre-cast, and concrete brick

### DILUTION

4:1 (4 parts water to 1 part solution) is the standard dilution on most surfaces.

### COVERAGE RATES

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

### PROTECTION

Building surfaces such as glass, anodized aluminum, brick, block, and even limestone are usually not affected by NMD80. Follow best job site practices and safety precautions. Chances of causing harm when using accepted standard practices is minimal. Elevator doors, stainless steel hardware and brass coated parts should be covered.



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### LOW PRESSURE APPLICATION

1. Lightly pre-wet or flash-cool the surface (do not soak).
2. Apply NMD 80 through an EC Jet to the entire section to be cleaned.
3. After the initial application of chemical, scrape the large chunks with a long handled scraper from the first 8 feet of the wall.
4. Check smears and tags to see if the crumble easily.
5. If needed, repeat application to melt remaining residue and extend dwell time. If there is no foaming, the residue is ready to be rinsed.
6. With NMD 80, the longer it stays on the wall, the cleaner the result and the least amount of rinsing is required. After re-application, scraping can be done further down the wall.
7. Begin rinsing from top down. Use long even strokes that overlap each other.

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

### TILT-UP 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. Pre-wet from top to bottom, followed with a quick, even application of NMD80. Do not allow product to dry on surface. Always rinse thoroughly.

### RINSING

Proper 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. Do not use zero degree nozzles. 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 manufacturer's recommended P.S.I. for the substrate you are working on.
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:** Sensitive surfaces, ie: sand faced brick, concrete brick, synthetic masonry and surface dyed substrates need to be rinsed at low pressures (Ex. Standard garden hose with nozzle).

### 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 NMD80 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. NIOSH/MSHA approved respiration for use with acids if adequate ventilation is unavailable. Though the potential for fuming NMD80 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 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 residual, use a chemical absorbent. 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 materials. 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.

### INSTRUCTIONS IN CASE OF CONTACT OR EXPOSURE

**Eyes:** Flood with water for fifteen minutes and seek medical attention. Remove contact lenses immediately.  
**Skin:** Wash off with soap and water. Use a good skin emollient. If irritation develops, seek medical attention.  
**Ingestion:** Drink lots of water to dilute. Do not induce vomiting. Seek immediate medical attention.  
**Inhalation:** Remove to fresh air. Call physician and seek medical attention if irritation develops.

### 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. They are available Monday through Friday, 8am to 5pm EST. Questions may also be sent via e-mail to [info@eacochem.com](mailto:info@eacochem.com). A reply can be expected the following business day.

