



FOR PROFESSIONAL USE ONLY

SPEC DATA SHEET

NMD 80 is a buffered acid-based new masonry cleaner designed for cleaning mortar smears off of new masonry structures. NMD 80 can be used on a wide variety of substrates without harming the surface or color when used as directed. NMD 80 is the number one specified cleaner by brick and block manufacturers. NMD 80 requires no scrubbing to be effective.

ADVANTAGES

- Spray-on/rinse-off application increases production and reduces labor when applied through an EC-Jet.
- Will not harm most glass or anodized window frames when used as directed.
- Reduces water-in-wall issues, such as efflorescence.
- No respirator required when used outdoors (other safety precautions apply).
- One cleaner for multiple substrates, which includes unpolished natural stone and cast stone. (see complete list under suitable substrates)
- For use on vertical and horizontal surfaces.
- Effective way to remove large scale efflorescence.
- Biodegradable
- Top down application allows more product coverage on lower elevations.

LIMITATIONS

- Should not be used on polished stone or lime-faced brick.
- Only apply to areas to be cleaned. Product can be corrosive to certain woods, metals, and plants.
- 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 low pressure rinsing on synthetic stone and surface dyed substrates

TECHNICAL DATA

Appearance:	Pale yellow/amber
Odor:	Strong scent
Physical State:	Liquid
pH:	<1.0
Boiling Point:	>210° F
Specific Gravity (water=1):	1.15 @ 77° F
Evaporation Rate:	As water

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 NMD 80. 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.

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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.

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 | ✓ Limestone |
| ✓ Concrete Brick | ✓ Natural Stone |
| ✓ Glazed Brick | ✓ Stone Veneer |
| ✓ CMU | ✓ Cast Stone |
| ✓ Colored Block | ✓ Hardscape |
| ✓ Smooth Block | ✓ Clay Pavers |
| ✓ Split Face Block | ✓ Concrete Pavers |
| ✓ Burnished Block | ✓ Windows |
| ✓ Ground Faced Block | ✓ Colored Mortar |
| ✓ Precast Concrete | ✓ Hardy Board |

While this list is extensive, there are other substrates that NMD 80 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 - 1-800-255-3924

DILUTIONS

NMD 80 is diluted 4 parts water to 1 part NMD 80. An EC Jet is recommended to ensure both proper dilution and application of NMD 80. Ideal size of pressure washer for exterior clean: gas powered ranging from 3 to 6 gallons 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 with NMD 80 using an EC Jet 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 NMD 80 through an EC Jet to the entire section to be cleaned. Start from the top and work down. Allow NMD 80 to dwell for 5-7 minutes.
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 NMD 80 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.
6. With NMD 80, the longer it stays wet on the wall, the cleaner the end result. This will also reduce the amount of rinsing required. After reapplication, scraping can be done further down the wall.

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7. Begin rinsing from top down. Use long even strokes that overlap each other.

Caution: Do not allow the product to dry on the 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 to 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

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.)

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 and seek medical attention.

Skin: Wash off with soap and water. Use 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. 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 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.