Brush or spray solution onto surface or immerse parts in Clean 'n Etch solution. Refer to Dilution Guide for recommended concentrations. Allow 3 – 5 minutes contact time, rinse, wipe or force dry.

For passivated galvanized, use 1 part Clean 'n Etch with 3 parts water. Spray on surface, rinse off after 20 minutes. Apply coating when dry.

1. PRODUCT DESCRIPTION
Clean 'n Etch is a concentrated, water reducible phosphoric acid detergent blend formulated to both clean and prepare concrete, masonry, steel, galvanized and zinc surfaces for coating, staining or sealing.

Clean 'n Etch is an economical concentrate which mixes readily with water and should be diluted before use.

2. ADVANTAGES
CONCRETE, MASONRY, BRICK
Clean 'n Etch reduces preparation time and cuts labor costs by eliminating the separate pre-cleaning and rinsing operation before etching.

STEEL, GALVANIZED AND ZINC
Clean 'n Etch will clean the surface and provide a phosphate conversion coating for improved corrosion resistance and enhanced coating adhesion. Clean 'n Etch has no acidic vapors or fumes, eliminating the risk of accidental corrosion of ductwork, electrical contacts in machinery and equipment and other sensitive surfaces. Additionally, Clean 'n Etch is ideal for use in areas with limited ventilation such as basements, swimming pools and containment areas.

Clean 'n Etch is odorless, non-flammable and is safe to use near vegetation. The favorable safety and environmental attributes of Clean 'n Etch improve productivity and reduce liability without sacrificing performance.

3. ADVANTAGES
CONCRETE, MASONRY, BRICK
Clean 'n Etch is ideal for cleaning and etching concrete floors, walls, basements, driveways, swimming pools and containment areas before coating, staining or sealing.

Clean 'n Etch saves time and labor by cleaning and etching in one operation. Because there are no acidic vapors, it is easier to use than muriatic acid and provides the even profile and uniform appearance preferred for clear coating applications.

REMOVES
Form Release Compounds
Oil, Dirt, Soot
Efflorescence & Laitance
Fabricating Oils, Lubricants, Smut, Fines and Rust Inhibitors
Passivation Films

STEEL, GALVANIZED AND ZINC
Clean 'n Etch can be used to clean and phosphatize steel, galvanized and zinc surfaces. Clean 'n Etch removes coolants, fabricating oils, smut, fines, lubricants, passivation films and rust inhibitors producing a conversion coating for improved corrosion resistance and enhanced coating adhesion.

4. APPLICATION (read precautions before using)
CONCRETE, MASONRY, BRICK
Clean 'n Etch can be applied with an acid-resistant, hand-pump sprayer, a plastic sprinkling can, or with a plastic pail and an acid-resistant brush.

For best results:
1) Select proper dilution (See guide on back)
2) Add concentrate to water and mix. If available, hot water will accelerate cleaning and etching.
3) Sweep loose debris and dampen the surface with water.
4) Apply solution and scrub with a stiff brush or broom until bubbling stops. NOTE: If no bubbling occurs, surface is coated with curing compounds or contaminants preventing etching. Remove contamination and reapply Clean 'n Etch.
5) Triple rinse with water to neutralize. For faster neutralization, rinse the surface with a 5 oz./gal. dilution of Great Lakes Laboratories No Rinse Prepaint Cleaner allowing 5 min. contact time. On parts, squeegee off rinse water to speed drying.
6) Allow the surface to dry thoroughly and check pH of the surface with pH indicator and distilled water. If the pH is below 7, repeat steps 5 and 6.

STEEL, GALVANIZED AND ZINC
Brush or spray solution onto surface or immerse parts in Clean 'n Etch solution. Refer to Dilution Guide for recommended concentrations. Allow 3 – 5 minutes contact time, rinse, wipe or force dry.

For passivated galvanized, use 1 part Clean 'n Etch with 3 parts water. Spray on surface, rinse off after 20 minutes. Apply coating when dry.

IMPORTANT - Refer to the Material Safety Data Sheet for detailed cautionary information. Avoid inhalation of mist by wearing an approved respirator. Avoid eye contact by wearing chemical safety goggles. Avoid skin contact by wearing impervious rubber gloves, aprons and boots.
5. DILUTION GUIDE

Clean ‘n Etch is concentrated and is intended to be diluted before use. Dilution rates will vary with surface conditions, application method and desired results. The dilution required should be determined by use on a small test area. Mix test solution based on the guide at right and compare the effectiveness of different concentrations. If available, hot water will improve cleaning effectiveness.

Heavy soil conditions may require stronger dilutions, longer contact time, repeated cleaning, and/or aggressive agitation.

CONVERSION:

1 pint = 16 oz.
1 quart = 32 oz.
1/2 gal = 2 qt. = 64 oz.
3/4 gal = 3 qt. = 96 oz.
1 gal = 4 qt. = 128 oz.
1 oz. = 29.57 cubic cm.

6. COVERAGE FOR CONCRETE, BRICK AND MASONRY

Calculate the total Surface Area Sq. Ft. to be treated by multiplying the length by the width in feet.

Length × Height = Total Sq. Ft.
____ × ____ = ______

To determine the approximate numbers of gallons of Clean ‘n Etch required:
1) Select Light, Medium or Heavy Soil Conditions from the chart below.
2) Find the Square Feet of Coverage closest to the Total Surface Area Square Feet to be treated.
3) Use the numbers in the “Gallons of Concentrate” column for an estimate of the gallons needed to treat a flat, smooth surface.

<table>
<thead>
<tr>
<th>COVERAGE CALCULATOR</th>
<th>Gallons of Concentrate</th>
<th>Light Duty</th>
<th>Medium Duty</th>
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7. CASE HISTORIES

RESIDENTIAL BASEMENT (Painter/Contractor)
Job: Cleaning and etching basement floor before coating.
Substrate/Soil: Concrete/Light dust and dirt, latex film.
Equipment: Acid-resistant sprayer, push broom.
Application: Damaged with water. Applied 3 part water; 1 part Clean ‘n Etch solution using acid-resistant sprayer. Scrubbed with a push broom until bubbling stopped. Triple rinsed with water.

RESIDENTIAL GARAGE FLOOR (Painter/Contractor)
Job: Cleaning and etching garage floor.
Substrate/Soil: Concrete/Light dust and dirt, latex film.
Equipment: Plastic sprinkling can, push broom.
Application: Damaged the surface. Applied 2 part water; 1 part Clean ‘n Etch solution. Agitated surface with push broom with particular attention to the heavily soiled areas. Triple-rinsed with water.

8. SAFETY AND HEALTH DATA

Clean ‘n Etch is non-flammable, non-carcinogenic, and contains no petroleum or chlorinated solvents.

9. RESEARCH

Clean ‘n Etch has been accepted with an A-5 category designation as a general cleaning agent on all surfaces or for use with steam or mechanical cleaning devices in all departments of USDA inspected facilities.

10. AVAILABILITY

Clean ‘n Etch is available through dealers and distributors throughout the United States and is manufactured in Livonia, Michigan. Call or write Great Lakes Laboratories, Inc. for a list of dealers and distributors.

11. TECHNICAL SERVICES

Technical advice furnished by Great Lakes Laboratories, Inc. concerning any use or application of Clean ‘n Etch is reliable as current technology allows and the company makes no warranty, express or implied, of any use or application for which such advice is furnished. Technical assistance and information is available upon request by writing or calling Great Lakes Laboratories Inc. toll-free at (800) 885-1105.