



TECHNICAL DATA SHEET

CONCRETE & MASONRY ETCH

ACR® Concrete & Masonry Etch is a non-corrosive, non-skin irritant, and biodegradable surface etch that is as effective as traditional acids.

ACR Concrete & Masonry Etch can be used for a variety of uses. The formulation was made to replace 32% hydrochloric acid without the dangers associated with that hazardous cleaner. ACR Concrete & Masonry Etch contains no natural acid and is non-corrosive. And because it is 100% synthetic, no neutralizing step is needed.

ACR Concrete & Masonry Etch is the easiest etching product you have ever used. The extreme hydrogen load in gives this product the punch it needs to dissolve calcium carbonate. But because the hydrogen in this product has a much stronger bond to the H ion than those in acids, ACR Concrete & Masonry Etch has a slower spending nature. This makes it ideal for use in detailed and architectural etching. And because ACR Concrete & Masonry Etch is non-fuming, it can be used indoors where using muriatic acid or hydrochloric acid would be problematic.



PRODUCT PROPERTIES

- Appearance: Clear Amber Liquid
- Specific Gravity: ± 1.12+-0.02
- Odor: Mild soapy
- Freezing Point: ≤ -26° F (-32° C)
- Boiling Point: ≥ 214° F (101° C)
- Solubility: 100% in water



PERFORMANCE CHARACTERISTICS

Non-Corrosive	100% Synthetic Acid
Non-Fuming	Non-D.O.T. Regulated
100% Biodegradable	Removes Rust
Etches Concrete	Safe on Glass & Metal
OSHA and EPA Compliant	Safe on Skin

STORAGE AND HANDLING

ACR Concrete & Masonry Etc has a shelf life of more than one year. Product is freeze/thaw stable. Keep container closed when not in use. Safety glasses are suggested when handling this product. No special gloves or protective equipment are required. Due to the product's low pH, aluminum piping and fittings should not be used. Consult your authorized Alchemco sales representative for tank, piping, valve, hose coupling and fitting recommendations.



PACKAGING

ACR Concrete & Masonry Etch is supplied in the following sizes;

- 5 gallon Pails (18.92 liters)
- 55 gallon drums (208.2 liters)



WARRANTY & SYSTEMS

The following warranties are available when using ACR Concrete & Masonry Etch:

- ACR 1-Year Limited Liability Material Warranty.

Project must be registered with the Technical Department to ensure validation of the Limited Material Warranty.



TECHNICAL DATA

BIODEGRADABLE:	Yes/100%
FORM:	Liquid
ODOR:	Mild Soapy Odor
COLD STABILITY :	-26° F
DETERGENCY :	Moderate
PHOSPHATES:	None
WETTING ABILITY:	Excellent
FLAMMABILITY:	Non-Flammable
BOILING POINT:	214° F
SOLUBILITY IN WATER:	100%
VOCs:	None
VOLATILE BY VOLUME:	N/A
CARCINOGENS:	None
SHELF LIFE:	1 Year

CONCRETE & MASONRY ETCH

APPLICATION

1. ACR Concrete & Masonry Etch is a ready to use product. Using a low pressure pump style sprayer, apply the product to the surface of the concrete. The product should be applied at a coverage rate of approximately 1 gallon per 480 - 500 square feet.
2. For best results, product should be applied when the ambient temperature is 40° F (10° C) and rising.
3. Allow product to remain on the surface for 10-30 minutes if possible. Product will not over-react.
4. Product can be allowed to dry in place and the powder residue removed with a vacuum or broom. It can also be rinsed from the surface with clean water.

NOTE: TechCrete warranted applications require the use of this product or one of the many ACR products. Chemical cleaning may require multiple applications and the use of different products to achieve complete cleaning. Other ACR products that may be utilized for surface cleaning and preparation on warranted applications.

Check the Alchemco website (www.alchemco.com) for technical data sheets on cleaning and preparation products or for help on which cleaning product will provide the best result.

**TOXICITY STUDIES**

Toxicity Limits: Test Procedure OECD 202, 48 hr. LC 50 and LD 50 (rat oral: NON-TOXIC)

Mutagenicity Limits: OECD Guidelines Sec. 471 Chemicals: **NON-MUTAGENIC**

Dermal Irritation & Corrosion

A modified Draize method was used as described in OECD Guidelines for the Testing of Chemicals Sec. 404 and complies with the requirements of OECD Principles of GLP, Annex revised as of July 1992. ACR Concrete & Masonry Etch is classified as a "Very Mild Skin Irritant".

Biodegradation & Aquatic Safety

Test Procedure: Hach Reactor Digestion method for Waste Water and Sea Water. Hach Reactor Digestion Method is a semi-micro adaptation of the Standard Methods. ACR Concrete & Masonry Etch is 100% Biodegradable.

Classifications & Approvals

D.O.T., IMO, IATA, IMDG - Non-Regulated
TDG - Non-Regulated to and through Canada SARA 313 311/312 - This product does not contain any ingredients that are subject to the reporting requirements.

California Prop 65 - This product does not contain any ingredients known to the state of California to cause cancer, birth defects or any other reproductive harm. FDA - Recognized as Safe (GRAS) USDA Authorization A1, A2, A4, A8, C3.

**WARNINGS****DANGER! EYE PROTECTION REQUIRED!**

Product may be harmful if swallowed. Wash hands, face and any exposed skin thoroughly after handling. Considered corrosive to eyes, eye protection is required.

Keep container tightly closed. Do not eat, drink or smoke when using this product.

IF SWALLOWED: Immediately call a POISON CONTROL CENTER or doctor/physician. Rinse mouth.

See Safety Data Sheet for further details regarding safe use of this product. Safety Data Sheets for any Alchemco product may be obtained by contacting Alchemco, 3532 Mayland Court, Henrico, VA 23233. 800-610-2895 or emailing technical@alchemco.com or calling CHEMTREC 800-424-9300 (US) 703-741-5970 (International).

**WARRANTY DISCLAIMER**

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