



POLY-TUFF SYSTEMS
INTERNATIONAL
HIGHWAY DIVISION

B-TUFF® ETCH

Non-Mechanical VOC Free Concrete Profiling Solution

1.01 DESCRIPTION

B-Tuff® Etch is a non-fuming, VOC free, non-hazardous, non-corrosive, biodegradable concentrate, concrete etch and cleaning solution. It is a great alternative to muriatic or phosphoric acids used to etch cementitious surfaces to achieve optimum bonding for stains, coatings, and sealers. Unlike the standard acids available, **B-Tuff® Etch** will not burn skin or corrode metals or require neutralizing. Please use the correct product grade that complies with VOC regulations as per federal, state, county and city regulations/codes at the place of installation of product.

1.02 USES

- Breezeways
- Cleaning of Tilt Walls
- Concrete Balconies
- Concrete Pool Decks
- Concrete Roof Decks
- Garage Floors
- Interior Parking Garages
- Parking Decks
- Penetrating Sealer Prep
- Preparation of Concrete for Coatings
- Sidewalks

1.03 FEATURES

- Bio-Degradable
- Environmentally Safe
- Low Odor
- No Neutralizing Required
- Non-Fuming
- Non-Hazardous
- Will Not Burn Skin

1.04 TECHNICAL DATA

Meets California VOC and SCAQMD Requirements

1.05 PACKAGING

1 gallon (3.78 liters) can
5 gallon (18.9 liters) pail

1.06 COLOR

Milky White

1.07 COVERAGE

Light Duty: 1/4-1/2 gallon (0.14-0.20 liters/sqm)/100 sqft or 150-200 sqft/gallon

Medium Duty: 2/3-1 gallon (0.30-0.41 liters/sqm)/100 sqft or 100-150sqft/gallon

Heavy Duty: 1-2 gallon (0.41-0.80 liters/sqm)/100 sqft or 50-100 sqft/gallon

1.08 PREPARATION

Remove any mud or dust build up. Sweep excess dirt away.

1.09 MIXING

Shake before using.

1.10 APPLICATION

Installation pretest areas prior to application to confirm desired depth of etch.

B-Tuff® Etch must be applied on dry surface. **B-Tuff® Etch** can be applied via heavy duty type pump sprayer and agitated with a bristle broom for deeper penetration and etching.

B-Tuff® Etch is intended to be used as provided and NOT diluted. Apply with a Stiff Applicator Brush or Heavy-Duty Hand Sprayer. Completely saturate concrete with **B-Tuff® Etch**. Surface will turn white, then darken. White residue may appear if TuffEtch™ evaporates. Do not rinse. RE-apply to reactivate as needed until concrete has softened and dissolved.

Allow **B-Tuff® Etch** to penetrate 15-20 minutes. Keep surface saturated. When cleaning tools and equipment, concrete will soften and release from surface after approximately 20 - 30 minutes. Additional soak time depends on the thickness of material being removed. Rinse with cold water. Use a garden hose with nozzle or pressure washer. Repeat as needed. **B-Tuff® Etch** will not harm paint, metal or wood, only Portland Cement.

PHYSICALS

Flash Point	65°F (18°C)
Viscosity	cps 90

1.11 CLEAN UP

Clean tools and equipment with water.

1.12 STORAGE AND SHELF LIFE

The material should be stored between 60-95°F (15-35°C) in a cool, dry area away from direct sunlight. Shelf life of properly stored, unopened containers is 12 months. Excessive temperature differential and/ or

high humidity can shorten the shelf life expectancy.

1.13 LIMITATIONS

- Do not thin with any water or solvents.
- Surface and ambient temperature must be a minimum of 40°F (4°C).

1.14 CAUTION

Do not apply to backer rod.

READ SDS PRIOR TO USING PRODUCT. FOR PROFESSIONAL USE ONLY.KEEP OUT OF REACH OF CHILDREN.MADE IN THE USA.

Please read all information in the General & Safety Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. PSI Products are for "Professional Use Only" and preferably applied by professionals who have prior experience with the PSI Products or have undergone training in application of PSI Products. Published technical data and instructions are subject to change without notice. Contact your local PSI representative or visit our website for current technical data, instructions, and project specific recommendations.

LIMITED WARRANTY

PSI warrants its products to be free of manufacturing defects and that they will meet PSI current published physical and chemical properties. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by PSI of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. PSI shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. PSI shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. PSI reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and PSI makes no claim that these tests or any other tests, accurately represent all environments.