



STARSEAL® EF SAFE ETCH

ECO-FRIENDLY • ZERO VOC • IMPROVES ADHESION

DESCRIPTION

STARSEAL® EF SAFE ETCH is part of the Vexcon family of concrete and masonry surface prep products. It is a safe to use, non hazardous interior/exterior, surface etch material specifically formulated to prepare the surface prior to final product application. It is designed to etch bare concrete and masonry surfaces to improve adhesion of Vexcon coatings and penetration of surface treatments.

BENEFITS

- Removes efflorescence and laitance
- For fresh and existing concrete and masonry
- Aids in proper penetration and performance of coatings and penetrating surface treatments.
- Safer to use than other types of acidic products
- Will not damage cement paste
- Zero VOC
- Non-fuming

STARSEAL EF

StarSeal EF products are high performance building materials that are dedicated to reducing their environmental foot print by improving the environmental performance of buildings, the air quality of its inhabitants and reducing the effects of volatile organic compounds (VOC's) on the environment.

ECO-FRIENDLY ATTRIBUTES

- Low odor
- Low VOC content
- LEED points
- Safe to use
- Safe to store
- Packaged in recyclable containers

SPECIAL NOTES

- All equipment that may come in contact with cleaner should be thoroughly cleaned with water.
- Caution: Although the material is non hazardous, while the StarSeal EF Safe Etch is reacting on the surface there may be a mild ammonia odor. Do not use in confined areas without proper ventilation. Use of a respirator is recommended when order becomes irritating.
- Always wear protective clothing (rubber gloves, eye protection, vapor mask, etc.). Consult the MSDS before use.
- Protect surfaces not intended to be treated, metal and glass from exposure. Rinse immediately with water if contact is made.
- Protect grass and any nearby plants by dampening these areas with water and covering with plastic drop cloths.
- Storage: StarSeal EF Safe Etch is unusable if allowed to freeze. Store between 50°-90° F. (10°-32° C)
- Shelf Life: 2 years in original, unopened container. Rotate stock.

PRIMARY APPLICATIONS

Ideal for use on any uncoated surface that is to receive a Vexcon coating or protective treatment such as: garage and warehouse floors, driveways, walkways, patios, pool decks, basement floors and walls.

PREPARATION

- Scrape and sweep away dirt and loose contaminants on the surface.
- Remove any previous coatings of other chemical treatments with **StarSeal EF Stripper**.
- Remove all surface stains such as grease, oil or rust with **StarSeal EF Degreaser & Cleaner** and **Certi-Vex Rust & Stain Remover**.
- Rinse surface well with clean water.
- Allow to completely dry.

DILUTION /MIXING INSTRUCTIONS

- **DO NOT MIX IN A METAL CONTAINER.** Use a plastic mixing container, large enough to hold the diluted solution.
- For very smooth surfaces (troweled surfaces with no porosity) use StarSeal EF Safe Etch at full strength.
- For smooth-troweled or broomed finished concrete with some porosity, 1 part StarSeal EF Safe Etch to 1 part water should be used.

TEST AREA

- A small area can be etched initially following application instructions to determine the proper dilution, and overall effectiveness.
- A properly prepared surface when dry will immediately absorb clean water without any surface beading effects.

APPLICATION

- Apply to a dry surface for best results.
- Apply using a plastic spray or other non metallic device so the entire surface area is covered. On vertical surfaces, start at the lowest point working up to the highest point.
- Spread product using a stiff bristled, non-metal brush or broom.
- Allow StarSeal EF Safe Etch to remain on the surface for 15 minutes.
- Do not let product dry on the surface.
- Redistribute puddles during this soak time. Add more product if necessary.
- Rinse surface thoroughly with fresh water while scrubbing at the same time to properly remove all remaining residue. Pressure wash for best results. Remove excess water with a non-metal squeegee or mop.
- Neutralize with StarSeal EF Neutralizing Rinse & Cleaner.
- Test surface porosity prior to coating or treatment application by performing a water absorbency test. Apply water to a representative portion of the prepared surface. A properly prepared surface when dry will immediately absorb clean water without any surface beading effects.

CLEAN-UP

- Clean tools and equipment with water.
- Thoroughly rinse all surfaces, clothing and tools with fresh water after use.

PACKAGING

StarSeal EF Safe Etch is packaged in 55 gal (208 liter) drums, 5 gallon (19 liter) pails and 1 gallon (3.8 liter) containers.

COVERAGE/ESTIMATING

Actual coverage depends on porosity of surface. See Test Area section.

- One gallon of full strength product will etch 200 sq. ft. (18 m²/liter).
- One gallon of diluted solution will etch and clean 100 sq. ft. (9 m²).

TECHNICAL INFORMATION

- Appearance: Clear liquid
- Odor: Slight Ammonia
- Volatiles by volume: 89% PH: 6 (As Packaged)
- VOC Content: 0 g/L
- CSI reference: 03 01 30, 03 01 40

HEALTH AND SAFETY

- Causes burns to eyes and skin.
 - Harmful if swallowed or inhaled.
 - Keep out of reach of children.
 - Keep product, dilution, and application containers tightly closed when not dispensing product.
 - Use only with adequate ventilation.
 - For use by professional applicators only
- Vexcon MSDS # OP 100 is an integral part of the safety and application of our product. A short synopsis is provided in this product data sheet. Before using this Vexcon product it is advisable to obtain a copy of the MSDS, from your distributor or by contacting Vexcon Chemicals.

CONTACT US @

Additional product information, technical assistance and customer service is available by contacting Vexcon Chemicals directly or our distributors.

- | | |
|-------------------------------|-----------------------|
| • vexcon.com | • sales@vexcon.com |
| • technicalservice@vexcon.com | • Voice: 888.839.2661 |
| • customerservice@vexcon.com | • Fax: 215.332.9997 |

WARRANTY

Vexcon warrants that the goods supplied hereunder shall be of its standard quality and shall conform in all material respects to the sample which has been made available for testing by buyer prior to sale. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon shall replace nonconforming goods or refund the purchase price. Since methods of use and application are beyond Vexcon's control, this Limited Warranty IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE CONCERNING MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS LIMITED WARRANTY IS ALSO IN LIEU OF ANY OTHER POSSIBLE LIABILITIES OF VEXCON, WHETHER ALLEGED TO ARISE BY AGREEMENT OR BY OPERATION OF LAW, RESPECTING THE SALE, APPLICATION, USE OR FUNCTION OF VEXCON'S PRODUCTS, INCLUDING BUT NOT LIMITED TO CLAIMS OR NEGLIGENCE, GROSS NEGLIGENCE, STRICT LIABILITY OR ANY OTHER TORT. IN NO EVENT SHALL VEXCON BE LIABLE FOR PERSONAL INJURY OR PROPERTY DAMAGE, REAL OR PERSONAL, ATTRIBUTED TO ITS PRODUCTS, NOR FOR ANY EXCAVATION, REMOVAL, REAPPLICATION, DOWN TIMES, CLEANUP, LOSS OF USE, LOSS OF OPPORTUNITY, LOSS OF MARKET VALUE, LOSS OF RENTAL VALUE OR FOR ANY LOSS OF PROFITS OR OTHER SPECIAL, INCIDENTAL, RESULTING, CONSEQUENTIAL OR EXEMPLARY DAMAGES. No person is authorized by Vexcon to assume for it any other liability of any kind in connection with the sale or use of products manufactured and sold by it, and there are no oral agreements or warranties collateral to or affecting any sale or use. All of the foregoing arises under the substantive law of Pennsylvania without regard to principles of conflicts of laws.