



Concrete solutions for architects, engineers and builders since 1974
 888-839-2661 | sales@vexcon.com | 7240 State Road | Philadelphia, PA 19135 vexcon.com

STARSEAL® WATERPROOF 100 & 500

WATER REPELLENT FOR BRICK, BLOCK AND CONCRETE

DESCRIPTION

STARSEAL WATER PROOF are economical commercial and residential grade waterborne silane water repellent treatments for use on all brick, block, concrete, cement, plaster and stucco. Assists in preventing efflorescence, damage from freezing and thawing action, and protects surfaces from damaging water penetration. Available in two versions to meet your project specific requirements. Economical StarSeal Water Proof 100 and value priced StarSeal Water Proof 500.

Recommended for sidewalks, driveways, walkways, decorative concrete and as a general purpose water repellent treatment.

BENEFITS

- Good protection against surface cracking and spalling from the effects of repeated wet/dry and freeze thaw cycles caused by water and salt penetration
- Life expectancy of masonry greatly extended
- Single application-long life
- Self cleaning dirt does not stick, water runs off and cleans
- Reduces on-going maintenance and repair costs
- Salt stain leaching and efflorescence are minimized
- Water base -safer to use -low odor
- Does not alter natural surface texture and appearance
- Economical silane penetrating sealer
- Vertical and Horizontal surfaces
- Eco-friendly
- Above and below grade

PRE-INSTALLATION NOTES

- A test application is necessary on each surface to be treated to ensure compatibility and desired water repellency. Test areas are also useful in determining final application rate and procedures.
- If the material in the test area does not fully penetrate due to coatings or inadequately cleaned surface, re-cleaning using **StarSeal EF Stripper** or etching the surface with **Certi-Vex® Etch & Efflorescence Remover** might be required.
- If a tacky residue remains after 24 hrs, the application rate must be modified. Material which remains tacky on the surface can usually be removed by washing with water or a vinegar solution.
- Tests should be applied using the same equipment and techniques planned for job application.
- Adjoining glass, metal and painted surfaces should be protected from over spray and splash. Inadvertent splashes should be removed using **Certi-Vex Equipment Cleaner** before the solution has dried on the surface.

SURFACE PREPARATION

- All caulking, patching and joint sealants concrete should be properly cured and fully installed prior to application. See Curing Recommendations below.
- All surfaces must be cleaned free of dust, dirt, surface materials, previous coatings and contaminants.
- New concrete normally does not require etching. However, slick trowel finished concrete that has become heavily contaminated with surface dirt, tire marks, oil, etc., during construction may require thorough cleaning and a mild etch using **Certi-Vex Etch & Efflorescence Remover** for best performance.
- Older surfaces should be power washed with high-pressure water and **StarSeal Masonry & Brick Cleaner** to assure removal of surface dirt, oil and contaminants that may have built up over the years or use **StarSeal EF Stripper** to remove old cure and seals, resin cures, acrylics, adhesives, floor waxes and many urethanes and epoxies.
- To determine that the concrete is penetrable perform a water absorbency test by applying 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.
- Application to still damp surfaces is acceptable however free standing water must be removed.
- Surfaces to be treated may be damp but should be absorbent to assure good penetration.
- Application should not be attempted if it has rained in the past 3 or 4 days or if rain is anticipated within 24 hours after application.

CURING RECOMMENDATIONS

A. Concrete can be cured with **Certi-Vex Envio Cure**, an emulsion resin cure, which will dissipate. Allow to dissipate or remove with **StarSeal EF Stripper**.

B. Water cure-burlap

NOTE: Sodium Silicates should not be used to cure concrete.

COVERAGE

- One gallon of StarSeal Water Proof should cover about 75-100 sq.ft (7-9 m²).
- Use one coat on most surfaces.
- Dense masonry may not accept the solution at this rate. Such surfaces should be given two coats and the coverage extended to 175-200 sq.ft./gal (4-5 m²/L) per coat At least 2-4 hours, under good drying conditions, should be allowed between coats.

SPECIFICATIONS/COMPLIANCE

VERTICAL SURFACES

- If brush application is used, it should not be brushed out.
- If applied by spray gun use the minimum line pressure required.
- Expel the material from the gun in a gentle stream with as little atomization as possible. A run down of material on the masonry surface of 6 to 12 in. (150 to 300 mm) should be allowed.
- Drop cloths should be used to protect bushes, grass or other vegetation from overspray.
- Clean up overspray immediately.
- Equipment clean up: Use water when wet and Certi-Vex Equipment Cleaner when dry. Flush with water before use.

HORIZONTAL SURFACES:

- StarSeal Water Proof should be applied in a single saturating application with sufficient material applied so the surface remains wet for a few minutes before penetration into the surface.
- Surface residues, pools and puddles should be broomed or brushed out until they completely penetrate into the surface.

SPECIAL NOTES

- Allow 5-7- days for the product to fully react before evaluation.
- Full water repelling can take up to 7 days to develop, based on temperature which can affect the reaction rate of the Silane
- The product should be stored in sealed containers
- Do not apply water repellent treatment when surface temperatures are below or expected to fall below 40°F (4.4°C)
- Do not apply water repellent treatment when surface temperatures are above 85°F (29°C)
- Do not apply water repellent treatment on windy days
- Keep from freezing
- Mix well before each use and during application
- Do not apply if rain is expected within 8 hours after application
- Do not apply earlier than 24 hours after rain
- Do not apply to frozen surfaces
- Shelf Life: If properly stored in its original sealed container, six months. Rotate your stock.
- For use by experienced contractors
- Proper application of Vexcon material is the responsibility of the installer or user. Telephone consultation and/or field visits by Vexcon personnel are for the sole purpose of making technical recommendations only, and not for providing quality control or supervision on location

VITAL STATISTICS

- Flash Point 245°F (118°C) Tag closed up
- Boiling Point 210°F (98°C), 760 mm Hg
- Auto ignition temp ND
- Extinguishing media: Regular foam, carbon dioxide or dry chemical. Water may be used to reduce the rate of burning and for cooling purposes.

• STARSEAL WATERPROOF 100

- VOC <100 grams/liter or <0.83 #/gal
Meets:
 - US EPA AIM - Waterproofing Sealers and Treatments
 - OTC - Waterproofing Sealers
 - LADCO - Waterproofing Sealers
 - Canada -Waterproofing Sealers
 - CARB - Waterproofing Sealers
 - SCAQMD - Rule 1113- Waterproofing Sealers
- LEED NC category/points: For detailed information visit Vexcon.com/green
 - EQ 4.1 -1 point
 - MR 2.112.2 -1 point
 - MR 5.115.2 -1 point

• STARSEAL WATERPROOF 500

- VOC <100 grams/liter or <0.83#/gal
Meets:
 - US EPA AIM - Waterproofing Sealers and Treatments
 - OTC - Waterproofing Sealers
 - LADCO - Waterproofing Sealers
 - Canada - Waterproofing Sealers
 - CARB - Waterproofing Sealers
 - SCAQMD - Rule 1113-Waterproofing Sealers
- LEED NC category/points: For detailed information visit Vexcon.com/green
 - EQ 4.1 -1 point
 - MR 2.1/2.2 -1 point
 - MR 5.1/5.2 -I point
- Specification SS-W-110C-Federal Specification for Water Repellency.
- CSI Reference: 07 19 16

PACKAGING

StarSeal Water Proof is available in 55.gallon drums and 5-gaJlon pails. Contact Vexcon directly to discuss your customized packaging requirements.

HEALTH AND SAFETY

- Use only with adequate ventilation
 - Use of gloves, goggles and other protective clothing is advised when using this product.
 - (If swallowed, do not induce vomiting.
 - For use by experienced applicators only.
- Vexcon MSDS PS105-100 or PS150-500 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.

PHYSICAL PROPERTIES

	<u>#100</u>	<u>#500</u>
• Color	White Emulsion	White Emulsion
• Dry Time	1 1/2 hours	1 1/2 hours
• Solids	6%	10%
• Flash Point	157 ⁰ F (66 ⁰ C) min.	157 ⁰ F (66 ⁰ C) min.

CONTACT US@

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

- vexcon.com
- techservice@vexcon.com
- customerservice@vexcon.com
- sales@vexcon.com
- Voice: 888.839.2661
- 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 MERCHANTABILITY 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.