

**VEXCON**  
CHEMICALS, INC.

Concrete solutions for architects, engineers and builders since 1974

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## POWERSEAL SS PLUS

### WATER REPELLENT SILANE/SILOXANE SEALER • SALT GUARD

#### DESCRIPTION

**POWERSEAL SS PLUS** is a cost effective clear water based silane/siloxane water repellent sealer for use on vertical and horizontal surfaces. Use on brick, block, concrete, pavers and some natural stones. Assists in preventing efflorescence, damage from freeze/thaw and protects surfaces from destructive water and chloride penetration.

#### BENEFITS

- Good protection against water and the elements
- Effective chloride screen
- Breathable - Does not trap moisture
- Easy to apply - Reduces labor costs
- Helps resist cracking, spalling, and staining
- Keeps surface cleaner
- Reduces on-going maintenance and repair costs
- Water based - Safer to use - low odor
- Does not alter natural surface texture and appearance

#### 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 procedure.
- If the material in the test area does not fully penetrate due to coatings or inadequately cleaned surface, re-clean using one of Vexcon's recommended concrete and masonry cleaners.
- 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 soapy water or a vinegar solution.
- Tests should be applied using the same equipment and techniques planned for job application.
- Inadvertent overspray should be immediately rinsed with water. If allowed to dry, clean with **Certi-Vex® Equipment Cleaner** and rinse with clean water. Protect non-porous surfaces.

#### SURFACE PREPARATION

- Re-point any loose or deteriorated mortar, all caulking, patching and joint sealants should be installed and fully cured prior to application.
- Fresh concrete should be properly cured see Curing Recommendations.
- All surfaces to be sealed must be properly cleaned. Power wash surface clean of dust and construction dirt. Use Vexcon's New Construction and Restoration Cleaners to clean surface materials, previous coatings, atmospheric stains and other harder to clean contaminants.
- Application to still damp surfaces with no sign of visible darkening is acceptable, free standing water must be removed. Surfaces must be absorbent to ensure good penetration.

#### SPECIFICATIONS/COMPLIANCE

- VOC <100 grams/liter or <0.83#/gal
  - Meets:
    - US EPA AIM - Waterproofing Sealers and Treatments
    - OTC - Waterproofing Concrete/Masonry Sealers
    - LADCO/MRPO - Waterproofing Concrete/Masonry Sealers
    - CEPA/EC - Waterproofing Concrete/Masonry Sealers
    - CARB - Waterproofing Concrete/Masonry Sealers
    - SCAQMD - Rule 1113-Waterproofing Concrete/Masonry Sealers
- Powerseal SS Plus is based on Powerseal technology, which meets requirements of NCHRP 244 series II.
- ASTM C642 - Water Absorption – minimum 75% reduction
  - ASSHTO T-260- Reduction of Chloride - minimum 75% reduction
  - ASTM E96 – Vapor Permeability – minimum 80%
  - Durability/Resistance to Sunlight/Discoloration and Alkalinity/Deterioration - Excellent
  - ASTM D5095 – Total Solids - 12%
  - LEED NC category/points: For detailed information visit [vexcon.com](http://vexcon.com).
  - CSI Reference: 07 19 16 – Water Repellents

#### CURING FRESH CONCRETE

Fresh concrete can be cured with **Certi-Vex Envio Cure**, a clear ASTM C-309 compliant cure. Allow to dissipate or remove with **Certi-Vex Wall Cleaner**.

#### COVERAGE

- One gallon of Powerseal SS Plus will cover approximately 50 - 200sq.ft (1.25 - 5m<sup>2</sup>/l) depending on substrate. Always test for best results.

#### APPLICATION

- Mix well before each use and during application.
- Do not dilute.
- If brush application is used, wet on wet. Do not brush out allow to penetrate and dry. Brush out heavy runs and drips that don't penetrate.
- Preferred application is by low pressure sprayer (20-PSI) using the minimum line pressure required. Tip size 0.11-0.12 or for pump up sprayer 0.5gal/min.

#### HORIZONTAL SURFACES

- Apply 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.

#### VERTICAL SURFACES

- Apply material in a gentle spray with as little atomization as possible. Saturate material on the surface from the bottom up creating a 6 to 12 in. (150 to 300 mm) run down.
- Extremely porous substrates may require 2 applications. Let the first application penetrate for 5 – 10 minutes before applying second application.
- Drop cloths should be used to protect bushes, grass or other vegetation from overspray. Clean up overspray immediately.

## **PHYSICAL PROPERTIES**

- Color White Emulsion
- Solids 12% Minimum
- Flash Point >200

## **DRY TIMES**

Dry times are based upon 68 - 77°F (20 - 25°C). Lower temperatures and relative humidity will extend dry times.

- Dry Time 4-6 Hrs.

## **SPECIAL NOTES**

- Allow 5-7 days for the product to fully react before evaluation.
- Full water repellency may take up to 7 days to develop.
- 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.
- Mix well before each use and during application.
- Protect product from freezing.
- Protect asphalt surfaces from overspray.
- Application should not be attempted if it has rained and substrate is saturated (not damp) or if rain is anticipated within 24 hours after application.
- Do not apply to frozen surfaces.
- Will not inhibit water penetration through unsound or cracked surfaces or surfaces with defective flashing, caulking or open joints.
- Equipment Clean up: Use soapy water when wet and Certi-Vex Equipment Cleaner when dry. Flush with water before use.
- Glass and other non porous surfaces: Protect before use or clean as soon as possible with soap and warm water. If dry, clean with Certi-Vex Equipment Cleaner. Test prior to full use.
- Shelf Life: If properly stored in its original sealed container, twelve months. Rotate your stock.
- For use by experienced contractors.
- Storage/ Handling: Store in tightly sealed original factory container. Keep from freezing and exposure to moisture. Store at room temperature prior to use. Care should be taken to keep dirt, water and contaminants away from the opening of containers.
- Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- 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.

## **PACKAGING**

Powrseal SS Plus is available in 55 gallon drums, 5 gallon pails and 1 gallon containers. 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 SDS PS103 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 SDS from your distributor or at vexcon.com.

## **CONTACT US@**

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

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- techservice@vexcon.com
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### **WARRANTY**

LIMITED WARRANTY: Vexcon warrants for a period of one (1) year from the date of manufacture that the goods supplied hereunder shall be of its standard quality and free of defects, and conforms to (a) Vexcon's published specifications in force on the date of acceptance by Vexcon of the order and (b) the sample which has been made available for testing by buyer prior to sale. Any claim under this warranty must be made in writing to Vexcon Chemicals within sixty (60) days after such non-conformity is first discovered. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon at its option 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 EXPRESSED 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 OF NEGLIGENCE, GROSS NEGLIGENCE, MISUSE, STORAGE DAMAGE, MISAPPLICATION, ACCIDENT, STRICT LIABILITY OR ANY OTHER TORT. 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.

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