



SPECIALTY CONSTRUCTION PRODUCTS

PowerSeal SS Plus

8% Solids, Silane Modified Siloxane, Water-Based, Penetrating Water Repellent for Concrete, Masonry & Brick

P R O D U C T D A T A

DESCRIPTION

PowerSeal SS Plus is a high solids, penetrating, chemically reactive, water-based, silane modified siloxane emulsion, for moisture and water repellency in concrete, masonry, brick, block and pavers. **PowerSeal SS Plus** helps prevent efflorescence, damage from freeze/thaw cycles and protects surfaces from destructive water and chloride salt penetration.

USES

- Protects exterior concrete and masonry surfaces exposed to salts, acid rain or freeze/thaw cycles including brick, stucco, concrete block, split faced block, absorptive concrete pavers, and concrete
- Can be used on both horizontal or vertical surfaces
- High solids formula is ideal for protection of vertical concrete, masonry and brick
- Municipal applications including median barriers, bridge decks, ramps, and concrete pavement
- Protects concrete subjected to chloride attack including marine structures, vehicular repair, wash down facilities, and loading docks

ADVANTAGES

- Prevents chloride ion penetration from deicing chemicals and marine environments
- Prevents spalling of concrete surfaces due to freeze/thaw cycling
- Penetrates deeply and chemically reacts with concrete and masonry for long lasting protection.
- Seals pores and capillaries of substrate preventing liquid absorption while allowing excellent vapor transmission
- Protects reinforcing steel from corrosion caused by water or salt penetration
- Formulated to minimize changes in the appearance of substrates
- Suitable for architectural and light colored surfaces

Packaging / Part Number

| | | |
|-----------------|---------------|-----------|
| 1 gal (3.8 L) | 4 per case | FV1405.04 |
| 5 gal (18.9L) | 36 per pallet | FV1405.05 |
| 55 gal (207.9L) | 4 per pallet | FV1405.55 |

TECHNICAL DATA

- Complies with National Volatile Organic Compound (VOC) Emission Standards for Architectural Coatings, Federal EPA Regulation 40 CFR Part 59 with <200 g/L VOC.
- CSI Master Format 07 19 16 Water Repellents

TEST DATA

| TEST | Data |
|---|-----------------------|
| ASTM C-642 Water Absorption Reduction | >90% |
| ASSHTO T-260 Chloride Reduction | 75% min. |
| ASTM E96 Vapor Permeability | 80% min. |
| Appearance when dry | Clear |
| ASTM E-514 Water Repellency Wind Driven Rain | 100% |
| Drying Time: @ 70°F (21°C) @ 50°F (10°C) | 4-6 Hours 24 Hours |
| Solids | 8% |
| VOC Content | <100 g/L |
| Flash Point | >200°F (93°C) |

DIRECTIONS:

Mixing: **PowerSeal SS Plus** is packaged ready to use. Do not dilute. Mix well prior to each use and periodically during application.

Surface Preparation: Substrates must be a minimum of 28 days old or fully cured. Surface temperature must be a minimum of 45°F (7°C) and rising with an ambient temperature of 50°F (10°C). Do not apply to frozen or frosted surfaces.

Surface must be clean and free from dirt, dust, laitance, oil, grease, paints, alkali, efflorescence, curing or sealing compounds, tilt up bond breakers or other contaminants which would prevent proper penetration.



ChemMasters®

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300 EDWARDS STREET • MADISON, OHIO 44057-3112 (440) 428-2105 • FAX (440) 428-7091 • ORDERLINE: (800) 486-7866 www.chemmasters.net

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DIRECTIONS CONT'D:

Surface Preparation Cont'd: Extremely dense surfaces such as burnished trowel finished floors or hard fired masonry units may be given a light acid wash to promote adequate penetration.

Protect vegetation and any metal or glass adjoining substrate from overspray. If spills or overspray occur wipe hard surfaces immediately with a cloth and warm water. Thoroughly rinse vegetation with water.

Repairs: All cracks and deteriorated surfaces should be repaired or prior to application of **PowerSeal SS Plus**. Joints and channels should be taped or filled to prevent later adhesion problems. Re-point any loose or disintegrated mortar and allow 72 hours drying time before application.

Application: Apply **PowerSeal SS Plus** with a low pressure, airless sprayer generating 15 psi and equipped with a fan nozzle, or a short nap roller. Follow recommended application rates listed in *Estimating Guide*.

On vertical surfaces, work from the bottom up, allowing a minimum 6 inch run down. Maximum run down is 12 inches. Excessive run down or over application can cause discoloration of the substrate.

Horizontal surfaces may be opened to traffic as soon as substrate is dry usually 1 hour at 72°F/22°C with 50% R.H
Horizontal surfaces may be opened to traffic as soon as the substrate is dry usually 4-6 hours at 72°F (22°C) with 50% relative humidity.

Note: A small test area is recommended to determine if application will change the appearance of the substrate. Allow area to cure for 24 hours prior to general application of the product.

Non-Decorative vertical surfaces: Saturate to the point of 6" (15 cm) minimum, 12" (30 cm) maximum run down.

Decorative Vertical Surfaces:

For a more consistent appearance, saturate to the point of a 2" (5cm) minimum, 6" (15cm) maximum rundown. Excessive saturation of decorative vertical surfaces may cause undesirable discoloration.

Estimating Guide

| Substrate | ft ² /gal | m ² /L |
|---|----------------------|-------------------|
| Brick, stucco, concrete exposed aggregate | 100 to 150 | 2.5 to 3.7 |
| Precast | 125 to 150 | 3.0 to 3.7 |
| Concrete Block | 90 to 110 | 2.2 to 2.7 |

CLEAN UP

Clean tools and equipment with detergent and warm water before material dries.

STORAGE

Do not allow **PowerSeal SS Plus** to freeze. Store in tightly closed containers in warm dry area. **PowerSeal SS Plus** must be stored at temperatures between 50° & 90°F (10° & 32°C). Shelf life of properly stored material is one year from date of manufacture.

LIMITATIONS

- Do not apply when surface temperature is below 45°F (7° C) or ambient temperature is below 50°F (10°C) or above 100°F (38°C).
- Exceeding recommended application rates may result in blotchiness, particularly in horizontal applications.
- Do not apply to wet or damp surfaces or if rain is expected within 4 hours of application.
- If joints or channels are to be filled at a later date, tape or mask prior to application to prevent adhesion problems.
- Variations in the texture and porosity of the substrate will effect the coverage and the performance of the product.
- **PowerSeal SS Plus** is a penetrating sealer designed to reduce the intrusion of water and salts. It is not a waterproofing membrane and thus cannot be expected to bridge cracks or joints in the concrete.
- All label precautions and the SDS must be fully understood before using this product.
- Proper application is the responsibility of the user. ChemMasters can only make technical recommendations and cannot provide quality control on the jobsite.

Precautions

WARNING: Causes skin irritation. Causes eye irritation.

Precautionary Statements: Wash hands and skin thoroughly after handling. Wear protective gloves, eye protection.

Use the current versions of the Product Data and Safety data sheets. Go to www.chemmasters.net or contact ChemMasters Technical Service Department at 1-800-486-7866 to verify.

For professional use only.

Keep out of reach of children.

See the safety data sheet for hazard information.

This Product is Formulated and Labeled for Industrial and Commercial Use Only

FOR BEST RESULTS AND SAFEST USAGE, USER IS SPECIFICALLY DIRECTED TO CONSULT THE CURRENT PRODUCT & SAFETY DATA SHEETS AND PACKAGE LABEL FOR THIS PRODUCT. We warrant our products to meet our published specifications and to be free from defects in materials and workmanship to the acceptable quality levels defined in these specifications. If acceptable quality levels are not specified, the acceptable quality levels will be those normally supplied by us for the product. We make no guarantee of the results to be obtained from the use of our products. The determination as to the adaptability of any of our products to the specific needs of the Buyer is solely Buyer's prerogative and responsibility. We are glad to offer suggestions on the use of our products. Nevertheless, there are no warranties given except such expresses warranties offered in connection with the sale of a particular product. Our liability shall be limited to replacement of, or refund of an amount not to exceed the purchase price attributed to, the goods as to which such claim is made. Our selection of one of these alternatives shall be Buyer's exclusive remedy. IN NO CASE SHALL WE BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, CO-CONDITIONS AND REPRESENTATIONS, EITHER EXPRESSED OR IMPLIED, WHETHER ARISING UNDER ANY STATUTE, COMMON LAW, USAGE OR TRADE, COURSE OF DEALING OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.