

# POLASEAL VCI™

## Corrosion Inhibiting Concrete Sealer



**DESCRIPTION**

POLASEAL VCI is a corrosion inhibiting, penetrant sealer for the protection and waterproofing of most types of concrete. POLASEAL VCI uses a combination of vapor corrosion inhibition chemistry and reactive siloxane technology to provide corrosion protection to steel reinforcement and waterproofing protection of concrete. POLASEAL VCI contains microparticulate inhibitors that penetrate into the concrete structure. These inhibitors produce a monomolecular layer that seeks the metal surface of rebar and inhibits ion transfer (corrosion). This corrosion protection is continually replenished by additional unreacted inhibitor. Dilution of the monomolecular layer is prevented by a siloxane surface barrier.

**OUTSTANDING FEATURES**

- Arrests concrete deterioration caused by water penetration and internal corrosion
- Prevents corrosion of rebar and maintains structural integrity of the concrete
- Provides long term protection and waterproofing for most types of concrete
- Does not alter the concrete's appearance and prevents further rust staining and efflorescence
- UV stable and resists mildew and microbiological deterioration

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- Low odor during application; non-toxic and V.O.C. compliant
- Protects against acid rain, efflorescence, freeze-thaw spalling, and rust breakout
- Reduces staining, chloride ion ingress, A.S.R., and revisionary ettringite

**APPLICATION**

POLASEAL VCI is designed for application to untreated concrete surfaces. Any coatings that impede penetration of the sealer into the surface will need to be removed. Hard, impenetrable coatings such as epoxy or polyurethane will need to be sand blasted or wet abrasive blasted. Weathered, peeling paints may be sufficiently removed by high pressure water jetting. All

oils, treatments and contaminants that could restrict or prevent penetration of the sealer must be thoroughly removed. All repairs to the concrete should be completed prior to the application of the POLASEAL VCI. Cleaning to remove rust stains, efflorescence, mildew, etc., should be completed prior to application of POLASEAL VCI. All restoration work should be completed so that the surface that is to be protected will appear unchanged by the treatment with POLASEAL VCI. A dry surface is preferred to allow maximum penetration of sealer into the concrete. Apply POLASEAL VCI by low pressure spray, maintaining sufficient volume for saturation to the point of rundown or surface collection. Single coat coverage should be sufficient to provide complete protection; however, uneven surfaces, projections and shadows

SPECIFICATIONS	
Sealer Type	VCI Modified Siloxane
VOC	Below 25 gms/liter
Shelf Life	12 months
Average Penetration	6 inches
Coverage	150 square feet per gallon, depending upon substrate
Packaging	1 gallon, 5 gallons, and 55 gallons
Color	Clear

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may cause areas to be missed. For this reason, a light second coat may be necessary to find and treat any of these hidden areas.

### LIMITATIONS

Store product between 38°F and 95°F. Do not apply to frozen or saturated surfaces. Do not apply if precipitation is forecast within 8 hours. Do not spray in strong wind conditions. Protect adjacent surfaces, including shrubbery, from overspray. Overspray may damage

raw copper or aluminum surfaces. Remove any overspray from glass, metal or vinyl surfaces within 4 hours by wiping with thinner or mineral spirits, followed by wiping with glass cleaner. Clean tools immediately after use with water and detergent.

### MAINTENANCE

If a treated surface becomes dirty, low pressure wash with water or a soapy water solution. Rinse with clear water spray.

### PRECAUTIONS

Do not ingest. In case of ingestion, seek immediate medical assistance. Avoid contact with skin and eyes. In case of contact, flush with clear water for 15 minutes. For contact with eyes, get medical attention in addition to flushing. Wear rubber gloves, safety goggles and coveralls when using this product. Intended for outdoor use only.

Keep away from children and pets.

### TECHNICAL DATA

<b>Flashpoint</b>	Non flammable
<b>Solids Content</b>	15% (B.W.); 15% (B.V.)
<b>Density</b>	8.6 lb/gallon
<b>Actives</b>	12.5% by weight
<b>Chemistry</b>	Corrosion inhibitor modified siloxane
<b>Weatherometer</b>	Pass ASTM G-23
<b>Water Permeance</b>	Pass ASTM E514-74
<b>Salt Spray (300 hours)</b>	Pass ASTM B-117
<b>Water Absorption</b>	Pass Federal Spec SS-W-110C (below 1.0%)
<b>Reduction in Water Absorption</b>	86.75% NCHRP 244 Series 11
<b>Corrosion Project #01-111-1425</b>	336 hrs half immersion - no visible corrosion
<b>Corrosion Project #01-111-1425</b>	336 hrs full immersion - no visible corrosion

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Effective Date: 09/2010

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