



# ChemMasters®

## Certi-Vex® Penseal CT

Low-VOC, Penetrating Water Repellent Silane Sealer with Corrosion Inhibiting Additive for Steel Reinforced Concrete

### Quality • Innovation • Service

## P R O D U C T D A T A

### DESCRIPTION

**CERTI-VEX PENSEAL CT** is a low-VOC, clear penetrating surface applied water repellent silane sealer and corrosion preventative treatment for new concrete or as part of a corrosion repair system to existing concrete. The product penetrates concrete and provides an organo-functional molecule to inhibit the electro-chemical interaction between rebar and chloride ions, oxygen and moisture within concrete.

Easy to apply, **Certi-Vex Penseal CT** penetrates the concrete and chemically bonds with steel, cement paste and other siliceous materials present. Because corrosion is stopped before it happens, **Certi-Vex Penseal CT** provides a cost effective long term solution to costly repairs of reinforced concrete structures. **Certi-Vex Penseal CT** will also reduce the rate of corrosion on concrete with evidence of existing on going corrosion.

### USES

- Horizontal or vertical, exterior concrete
- DOT, commercial, industrial & municipal applications
- All types of reinforced concrete structures
- Bridge and parking decks, beams, columns, precast, prestressed & marine structures, facades & balconies

### ADVANTAGES

- Inhibits corrosion of steel reinforced concrete
- Long term protection against salt corrosion, deicing chemicals, mildew, water, wind driven rain, airborne contaminants, surface spalling from freeze/thaw cycles and other extreme weather conditions
- Reduces corrosion in carbonated concrete
- Extends the life of concrete & reduces repair costs
- Will not discolor/change surface appearance or texture
- Breathable and will not entrap moisture
- Apply in temperatures down to 20° F (-7° C)

Packaging and Part Number		
5 US gallon pail (18.9 L)	36 / pallet	FV3320.05CI
55 US gallon drum (208 L)	4/pallet	FV3320.55CI

### TECHNICAL DATA

Exceeds National VOC Emission Standards for Architectural Coatings 40 CFR Part 59 < 250 g/L and where VOC regulated levels are required.

- CSI Reference: [03 01 20], [07 19 16]

FHWA-RD-98-153 Cracked Beam Concrete Test:	
ASTM G109 Corrosion Reduction	>99%
• 15 mil cracked concrete, no preexisting corrosion	>99% reduction (3 coats @ 225 ft <sup>2</sup> /gal)
ASTM C876 Corrosion Activity: Micro Cell Reduced	>99% @ 80% RH and 100°F
ASTM C1152 Chloride Ion Reduction - 270 days, 250 ppm	>95% @ 1" above top reinforcing bar

Test Data	
ASTM C1202 Electrical Indication of Treated Concrete to Rapidly Resist Chloride Penetration	<ul style="list-style-type: none"> <li>• Before Coating: 1463 coulombs</li> <li>• After Coating: 443 coulombs</li> </ul>
NCHRP 244 Series II Water Weight Gain Reduction Series II & IV Chloride Reduction	95% 98%
ASTM C672 Scaling Resistance @ 100 freeze/thaw cycles	0 (no scaling)
ASTM C642 Water Absorption	>98% reduction
<ul style="list-style-type: none"> <li>• 24 hr immersion</li> <li>• 48 hr immersion</li> <li>• 24 hr boil</li> <li>• 50 days immersion</li> </ul>	0.33% 0.40% 0.81% 1.43%
ASTM C457 Depth of Penetration	0.150 to 0.26 in. (substrate dependent)
AASHTO T259/260 Chloride Ion Analysis—90 day salt ponding (@250 ft <sup>2</sup> per gallon)	1/16" to 1/2" - 0.63#/cu.yd. avg. 1/2" to 1" - 0.35#/cu.yd. avg.
ASTM D2047 Coefficient of Friction	0.84 average
ASTM E96 Water Vapor Permeability	95%



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### Physical Properties

Drying Time	1 to 4 hrs
VOC Content	<250 g/L
Solids	~100%
Flash Point	128°F (53°C)
Viscosity @ 73°F (23°C)	<1.0 cps

### Estimating Guide

Most applications will require 2-3 coats, depending on extent of existing corrosion, chloride ion level, and substrate surface texture and porosity.

Surface	ft <sup>2</sup> / gal (m <sup>2</sup> /L)
Bridge & Parking Decks, Ramps, Precast & Prestressed Concrete	175 to 225 (4.3 to 5.5)

### DIRECTIONS

May be applied at 14 to 28 days after concrete installation based on mix design, rate of cure and environmental conditions.

All caulking, patching and water base joint sealants should be installed and fully cured prior to application. Hot poured and solvent based joint sealants may be applied before or after application of the sealer.

All surfaces to be sealed must be properly cleaned. As needed, power wash surface clean of dust and construction dirt, surface materials, previous coatings, atmospheric stains and other contaminants.

Surfaces to be treated may be damp but should be absorbent to assure good penetration. Extremely dense surfaces such as burnished trowel finished floors may be given a light acid wash to promote adequate penetration.

**Mixing:** CERTI-VEX PENSEAL CT is packaged ready to use. Do not dilute.

**Application:** Apply CERTI-VEX PENSEAL CT with a low pressure, solvent resistant, airless sprayer generating 15 psi and equipped with a fan nozzle with 0.025" to 0.030" orifice at 0.5 g.p.m. or use a roller. Follow recommended application rates listed above.

On vertical surfaces, allow 6 inch minimum 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

### Cleanup

Clean tools and equipment used to apply CERTI-VEX PENSEAL CT with ChemMasters Coating Repair, xylene or mineral spirits before material dries.

### Storage

Store tightly sealed containers in a cool dry area away from direct sunlight and sources of heat or ignition. Shelf life is one year from date of manufacture.

### LIMITATIONS

- Do not apply unless substrate and ambient temperatures are 20°F (-6°C) and rising at time of installation.
- Do not apply above 90°F (32°C) or below 20°F (-6°C).
- Do not apply in rain or when rain is expected within 4 hours before or after application.
- Protect plant life and landscaping from overspray.
- Line stripping can be done after application of sealer. Contact ChemMasters Technical Service for additional information
- CERTI-VEX PENSEAL CT** may remove special coatings from glass. Test small areas prior to application.
- CERTI-VEX PENSEAL CT** may "frost" or damage plastic window panes.
- It is the responsibility of contractor/applicator to determine when the substrate is dry enough to safely open to traffic.
- CERTI-VEX PENSEAL CT** is a penetrating water repellent 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.
- All label precautions and the SDS must be fully understood before using this product.** Ensure that you are using the most recent technical data sheet for instructions. Go to [www.chemmasters.net](http://www.chemmasters.net) for the most up to date information or contact ChemMasters at 800.486.7866 to verify.
- Proper application is the responsibility of the user. ChemMasters can only make technical recommendations and cannot provide quality control on the jobsite.

### PRECAUTIONS

**For outdoors only. Not for indoor use.**

**WARNING:** Combustible Liquid. May be harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

**Precautionary Statements:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

**For professional use only.**

**Keep out of reach of children.**

**See the safety data sheet for hazard information.**

### THIS PRODUCT IS FOR COMMERCIAL USE ONLY – IT IS NOT A CONSUMER PRODUCT.

Before using this product read entirely this paragraph and the Manufacturer's Warranty and Limitations of Liability at [Chem-Masters.net/Warranty.php](http://Chem-Masters.net/Warranty.php) (or by using the adjacent QR Code) incorporated herein (collectively the "Terms"). To reject any of the Terms buyer must return the unopened product container at once to the seller from which it was purchased. By opening or using this product buyer accepts without objection or modification all Terms. Subject to applicable law, **MANUFACTURER DISCLAIMS ALL IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE**, and buyer agrees that in lieu of all other remedies in manufacturer's sole discretion it will either replace defective product or refund the reasonable purchase price, and in no event may you recover from manufacturer any special, incidental or consequential damages even if it was aware of the possibility of such damages.

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