



ChemMasters®

SPECIALTY CONSTRUCTION PRODUCTS

Certi-Vex® Penseal 244 40% AIM

40% Solids, Low-VOC, Solvent-Based,
Penetrating Water Repellent Silane
Sealer for Concrete & Masonry

P R O D U C T D A T A

DESCRIPTION

CERTI-VEX PENSEAL 244 40% AIM is a premium high performance, 40% solids, low-VOC, solvent-based, breathable, efficient clear silane penetrating water repellent sealer for concrete. When properly applied the treatment does not produce a surface build up, darkening or other effect on the color or texture of the surface leaving a natural appearance. The material's small molecular structure allows for maximum penetration into new concrete (14 day minimum) or existing concrete surfaces.

Certi-Vex Penseal 244 40% AIM penetrates into the pores and capillaries of concrete and masonry where it polymerizes sealing the pores, which prevents water and chloride ion penetration.

USES

- Horizontal or vertical, exterior cured concrete and masonry.
- DOT, commercial, industrial municipal and residential applications.
- All types of concrete flatwork, parking lots and structures, driveways, plazas, patios and walkways.
- Median barriers, bridge decks and piers, ramps and pavements.
- Marine structures, vehicular repair and wash down facilities, loading docks.

ADVANTAGES

- Extends the life of concrete and masonry
- 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 of rebar and surface erosion in reinforced concrete
- Prolongs the surface life and prevents damage from within by maintaining vapor permeability
- Apply in temperatures down to 20° F (-7° C)

Packaging and Part Number		
5 US gallon pail (18.9 L)	36 / pallet	FV3316.05
275 US gallon drum (208 L)	4/pallet	FV3316.55
275 US gallon tote (1,040 L)		FV3316.275

TECHNICAL DATA

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

- CSI Reference: 07 19 16

NCHRP 244 Test Data		
	Control percent reduction	Certi-Vex Penseal 244 40% AIM percent reduction
Water Absorption	0	87
Chloride Ion Content		
Series II	0	93
Series IV	0	94

Test Data	
ASTM C672 Scaling Resistance @ 100 freeze/thaw cycles	0 (no scaling)
ASTM E96 Water Vapor Permeability	95%
ASTM C642 Absorption	>98%
ASTM C457 Depth of Penetration	0.150 to 0.26 in. (substrate dependent)
ASTM D2047 Coefficient of Friction	0.84 average
Drying Time	1 to 4 hrs
VOC Content	<250g/L
Solids	40%
Flash Point	1°F (-17°C)

DIRECTIONS

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



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Estimating Guide

Actual rate may vary based upon substrate texture & porosity
D.O.T. requirements take precedent for D.O.T. projects

Surface	ft ² / gal (m ² /L)
Porous, Broom Finish & Concrete Pavers, Vertical Unpainted Stucco	95 to 140 (3.1 to 3.5)
Smooth/Hard Troweled	200 to 400 (6.5 to 11.0)
Bridge Decks & Ramps	125 to 250 (3.1 to 8.1)
Re-Sealing Bridge Decks & Ramps	250 to 300 (8.1 to 9.2)
CMU & Smooth Faced Block	200 to 400 (6.5 to 11.0)
Vertical CIP or Precast Concrete	150 to 200 (3.5 to 5.0)

DIRECTIONS CONT'D

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 244 40% AIM is packaged ready to use. Do not dilute.

Application: Apply CERTI-VEX PENSEAL 244 40% AIM with a low pressure, solvent resistant, airless sprayer generating 15 psi and equipped with a fan nozzle or use a roller. Follow recommended application rates listed above. 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

Cleanup

Clean tools and equipment used to apply CERTI-VEX PENSEAL 244 40% AIM with Polyseal Solvent, 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 two years 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 striping can be done after application of sealer. Contact ChemMasters Technical Service for additional information
- **CERTI-VEX PENSEAL 244 40% AIM** may remove special coatings from glass. Test small areas prior to application.
- **CERTI-VEX PENSEAL 244 40% AIM** will "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 244 40% AIM** 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 in the concrete.
- **All label precautions and the SDS must be fully understood before using this product.** Go to www.chemmasters.net for the most up to date information or contact ChemMasters at 800.486.7866.
- Proper application is the responsibility of the user. ChemMasters can only make technical recommendations and cannot provide quality control on the jobsite.

Danger. Highly Flammable Liquid and Vapor. Suspected of Causing Cancer. Toxic to aquatic life with long lasting effects. May be harmful if swallowed. May be harmful if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May be harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.

Precautionary Statements: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond the container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

All label precautions and Safety Data Sheet must be fully understood before using this product.

**For professional use only.
Keep out of reach of children.**

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 MATERIAL SAFETY DATA SHEET 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.