

**RECEIVED**CK'D BY CLB OK'D BY CWC

February 16, 2018

RESUBMIT No Approved  
BY C. CARLSON DATE 02/16/18

Performance Construction Chemicals

**CERTI-VEX® PENSEAL 244 40%****NCHRP-244 • ECONOMIC • WATER REPELLENT**

VOC Content 496 gr./liter or 4.14 #/gal. – Waterproofing

**DESCRIPTION**

**CERTI-VEX PENSEAL 244 40%** is a premium high performance, breathable, efficient VOC solvent penetrating water repellent sealer. Certi-Vex Penseal 244 40% is a clear, ready to use penetrating sealer based on an alkyl-alkoxy silane which deeply penetrates into new concrete (14 day minimum) or existing concrete and masonry surfaces. Surfaces treated with Certi-Vex Penseal 244 40% have a totally natural appearance. When properly applied the treatment does not produce a surface build up, darkening or other effect on the natural color or texture of the surface. The material's small molecular structure allows for maximum penetration into the subsurface. Certi-Vex Penseal 244 40% stops the intrusion of water, salts, deicer chemicals, and acids, which often result in efflorescence, mildew growth, corrosion, scaling, spalling, surface erosion, and other costly damage to hard surfaces. Certi-Vex Penseal 244 40% penetrates into the pores and capillaries of the cement based materials reacting with the moisture and chemicals in the substrate, polymerizing and sealing the pores, which prevents water and chloride ION penetration. Treatment of reinforced concrete reduces surface erosion and corrosion of rebar caused by attack of water and water borne salts and alkalis. Engineered for bridges, parking structures, athletic stadiums, highways along with many other above grade vertical and horizontal substrates including: concrete, brick, block, and other masonry surfaces.

**PERFORMANCE TEST DATA/COMPLIANCE**

Certi-Vex Penseal 244 40% has been tested according to the most current test procedures in the industry. Testing includes water absorption/repellency ratings, penetration and salt spray resistance. Results are listed below and independent test reports are available on request.

- Chloride screen test using NCHRP 244 series IV (1 application at 125 sq.ft. /gal.) greater than 90%
- Reduces water absorption (ASTM C-67 and ASTM C-140) by greater than 84%
- Scale rating-ASTM C-672-84 100 freeze thaw cycles-0 (no scaling)
- Penetration (1 application) 7mm-13mm., depending on substrate
- NCHRP 244
- Efficiency test-Powertseal yields 210% more silane than alcohol based products. See technical note #tn100 for more informat
- Many state departments of transportation

**BENEFITS**

- An effective chloride screen.
- Contains long alkyl groups especially suitable for alkaline concrete surfaces.
- Superior water repellency
- Prolongs the surface life and prevents damage from within by maintaining vapor permeability.
- Can be applied to surfaces, which are slightly damp.
- Quick formation of surface repellency and chemical resistance.
- Not Red Label - safer to use
- Can apply to 20°F -request Vexcon's Cold Weather Application Guide.
- Does not alter natural surface texture or appearance
- Greatest depth of penetration
- Best protection from harmful environmental elements

**PRE-INSTALLATION NOTES**

Precaution: Certi-Vex Penseal 244 40% contains blended solvent and should be handled accordingly. Do not use near fire or extreme heat and provide good ventilation to avoid buildup of solvent fumes. Applicators should wear NIOSH/MSHA approved respirators. When applying to the exteriors of occupied buildings all exterior air conditioning vents should be covered during application and air-handling equipment should be turned off during application to avoid solvent odors within the building. 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 procedures. If the material in the test area does not fully penetrate due to coatings or inadequately cleaned surface, use one of **Vexcon's concrete cleaners and stain removal products** to properly clean the surface prior to application. Use **Certi-Vex® Concrete Stripper** to remove old sealers, epoxies, urethanes, adhesives, curing compound and floor waxes. If required use **Certi-Vex Etch & Efflorescence Remover** to improve sealer penetration. 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 water or a vinegar solution. Tests should be applied using the same equipment and techniques planned for job application. Test areas should be available for inspection by the project engineer. Adjoining glass, metal and painted surfaces should be protected from over spray and splash. Inadvertent splashes should be removed using **Certi-Vex® Equipment Cleaner** before the solution has dried on the surface.