



CorrosionCOPS

When it's Rust Call US!

USER GUIDE AND LIMITATIONS FOR Cortec VpCI® CorrVerter®

CORTEC VpCI® CorrVerter® with corrosion inhibitors is a water based **acid free** rust conversion product that contains no tannic or phosphoric acids which means that you are not bathing metal in an acid bath that results in premature failure.

Without tannic or phosphoric acid in CORTEC VpCI® CorrVerter® there are many features that make the product the highest performer of all rust conversion products especially in harsh environments.

- Environmentally friendly, non-toxic and non-flammable.
- Excellent for marine application as VpCI® CorrVerter® works in the presence of excess salt contamination.
- Vapor phase Corrosion Inhibitors (VpCI®) protect the good metal substrate from further damage from corrosion and leaves no acids behind to re-invigorate further attack and damage to good metal.

(Acid vapors contained in tannic or phosphoric based products will constantly renew attack on the metal. The reinvigorated attack occurs due to condensation from the heat-cool cycle that metal surfaces produce due to the tropical atmosphere here in Hawaii.)

- Brushes and spray equipment cleaned with water, so there is no equipment loss.
- Top coat with water-based or oil-based coatings.
(Tannic and phosphoric acid based convert a rust products will not accept water-based coatings and require oil-based coatings resulting in more dollars being spent for thinners to clean equipment and then the requirement of hazardous material removal.)
- Returned unused product to the original container. No product waste means saved dollars.



Results of being treated with acid based convert-a-rust product

Surface preparation is required, by arriving at tight rust at the substrate without oil or grease on the surface, the surface is ready for application. (wire brush or high pressure wash)

CORTEC VpCI® CorrVerter® can be diluted up to 10% with water. If spraying with cup or HVLP systems, tests should be performed to insure proper application procedure occurs. In spraying, dilution may be required for best procedure. If dilution is required be sure and follow technical guidelines for application, We recommend additional coats of diluted product should be used to arrive at proper manufacturer specification for dry film thickness. Refer to manufacturer technical sheet.

As with all convert a rust products, galvanized surfaces are surfaces where convert a rust products do not work. If there is a break in the galvanization to the carbon steel substrate, the carbon steel surface will react properly with the convert a rust product, but the galvanized surface will not, possibly allowing undercutting of both coatings to occur at a later date. Specifically with acid based rust converters, the reactivity will result in a higher than normal corrosion rate, resulting in coating failure and loss of metal substrate as high as 35% good material loss. *(Tests conducted by the U.S. Naval Surface Warfare Center, Carderock Division have shown when acid based convert-a-rust products fail, a 35% loss of good metal substrate occurs.)*

CORTEC VpCI® CorrVerter® should be top coated with your choice of coating. We prefer use of CORTEC 300* series UV resistant water-based coatings that feature vapor phase corrosion inhibitors. Tannic and phosphoric acid based convert a rust products will not accept water-based coatings and require oil-based coatings resulting in more dollars being spent for thinners to clean equipment and then the requirement of hazardous material removal.

Bottom line: CORTEC VpCI® CorrVerter® with Vapor phase Corrosion Inhibitors features a high performance rust inhibitor, is **acid free** and formulated to penetrate rust, eliminate rust, penetrate to the bare metal, and **stop** further rusting by providing long-term corrosion protection for poorly prepared substrates. Water based VpCI® CorrVerter® provides a higher coverage ratio than competing brands, can be top coated with water based coatings and clean up is with water. *Used by in Hawaii by Matson, Alakai Mechanical, Bob's Equipment, Williams Hawaii, Hawaiian Dredging, C&C Parks & Recreation, Hawthorne CAT, Bonded Materials, Royal Contracting and many others.*

Packaging: VpCI® CorrVerter® is available in 1 gallon and 5 gallon container.

Save money, time and dollars with CORTEC VpCI® CorrVerter®



* Factory recommendation—CORTEC VpCI® -386 or VpCI® -387 for outdoor; CORTEC VpCI® -396 for indoors.

Solutions for Rust and Corrosion

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