



HIGH PERFORMANCE VpCI™ COATINGS

VpCI™ CorrVerter® Rust Primer



PRODUCT DESCRIPTION

VpCI CorrVerter is a water-based primer recommended for application to rusty or poorly prepared steel surfaces where further corrosion protection is required and good surface preparation is difficult to achieve. VpCI CorrVerter is formulated to penetrate rust, eliminate rust, penetrate to the bare metal, and stop further rusting.

VpCI CorrVerter contains a novel chemical chelating agent that modifies the surface rust into a hydrophobic passive layer. VpCI CorrVerter combines the above mentioned chelating agent with a high solids waterborne latex with extremely low water vapor permeability. The combination of the active chelating agent with a film-forming latex, thickeners and dispersant offers a unique formulation for a primer with excellent protection against re-rusting.

VpCI CorrVerter does not contain tannic or phosphoric acids, provides long-term corrosion protection for poorly prepared substrates, and can be topcoated with solvent-based and water-based paints with no bleeding. For outdoor applications VpCI-386 or VpCI-387 can be utilized. For indoor applications, VpCI-365 or VpCI-396 may also be used.

The combination of VpCI Corrverter and VpCI-396 provides the best immersion coating for submersion in water, salt water, hydro carbons and high salinity water. Therefore this coatings combination is Cortec's best offer for immersion situations.

FEATURES

- VpCI CorrVerter converts rust quickly and can be applied under varying weather conditions
- Provides >500 hours of corrosion protection with 3-mil (75 microns) application under salt spray conditions (ASTM B 117), on pre-rusted steel parts
- Works even in the presence of excess salt contamination (good for marine applications)
- Can be topcoated with water- and solvent-based topcoats vs. tannic or phosphoric acid-based coatings, which can only be topcoated with solvent-based topcoats
- The latex resin used in the primer provides flame-retardancy properties to the product
- Provides excellent protection against re-rusting (better than tannic or phosphoric acid-based converters)
- Promotes topcoating adhesion
- Water-based
- Very low VOC
- Environmentally friendly, non-toxic
- Non-flammable, non-combustible
- Works in HCL, H₂S, SO₂, & CO₂ environments

PROPERTIES

Appearance	Milky off-white viscous liquid
Total Solids, by weight	52-58%
Total Solids, by volume	40-42%
Density	11.4-12.0 lb/gal (1.36-1.44 kg/l)
Salt Spray (ASTM B 117)	>500 hours at 2.3-3.0 mils (37.5-75 microns DFT)
VOC	0.56 lb/gal (0.07 kg/l)
Theoretical Spread Rate	214-220 ft ² /gal @ 3mil



TYPICAL APPLICATION

VpCI CorrVerter is recommended for use on all steel surfaces as a rust converter/paint primer. The product can be used in situations where proper cleaning or sandblasting is difficult.

- Industrial maintenance
- General metal
- Marine

APPLICATION

It is recommended that any loose rust be removed with a wire brush and the rusty steel surface washed with high-pressure water to remove excess salt contamination. Brush, roll or spray VpCI CorrVerter with no surface show-through at 3-5 mils (75-125 microns) wet film thickness. Brush application is preferred to ensure penetration into the rust. The coating can be applied to dry or damp surfaces. The converter can be used as is or may be diluted up to 10% with water. For badly corroded surfaces, a second coat of VpCI CorrVerter should be applied within 20-30 minutes to ensure maximum protection. Allow to air dry 8-12 hours before applying topcoat.

LIMITATIONS

- The latex resin in the primer is not UV stable, and changes color in outside conditions. This does not change converting properties and does not affect the topcoat.
- For proper application, the product should always be mixed thoroughly before use.
- The converter may be diluted up to 10% with water, but should be thoroughly mixed and applied immediately after preparation.
- On certain types of rust, various degrees of darkening may be visible, and may even be incomplete under certain drying conditions. The degree of darkening does not affect the coating; the primer will continue to convert rust. Upon drying, the formulation will exhibit excellent performance.

PACKAGING AND STORAGE

VpCI CorrVerter is available in 5 gallon (19 liter) plastic containers and 55 gallon (208 liters) metal drums. Keep product from freezing. The shelf life of the coating is one year.

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

KEEP CONTAINER TIGHTLY CLOSED

NOT FOR INTERNAL CONSUMPTION

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

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