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-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.

FEATURES

- VpCI CorrVerter converts rust quickly and can be applied under varying weather conditions
- Provides 1000+ hours of corrosion protection with 3-mil (75 microns) application under salt spray conditions (ASTM B 117), on pre-rusted steel parts
- 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
- Provides excellent protection against re-rusting (better than tannic or phosphoric acid-based converters)
- Water-based
- Very low VOC
- Environmentally friendly, non-toxic
- Non-flammable, non-combustible
- Works in HCl, H_2S, SO_2, & CO_2 vapor environments
- Available in 2 colors, black and green

PROPERTIES

Appearance	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)	1000 hours at 3-5 wet mils (75-125 microns DFT)
VOC (regulatory)	0.3-0.4 lb/gal (35.9-47.9 g/l)
VOC (actual)	0.1-0.2 lb/gal (11.9-24.0 g/l)
Coverage	167-278 ft²/gal (4.2-5.6 m²/l)

TYPICAL APPLICATION

VpCI CorrVerter is recommended for use on all ferrous metal 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
- Holding tanks

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Environmentally Safe VpCI®/MCI® Technologies

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 before applying the product. 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 12-24 hours before applying topcoat or putting the coated components into the environment.

LIMITATIONS

- The latex resin in the primer is not UV stable, and changes color in outside conditions.
- 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. 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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