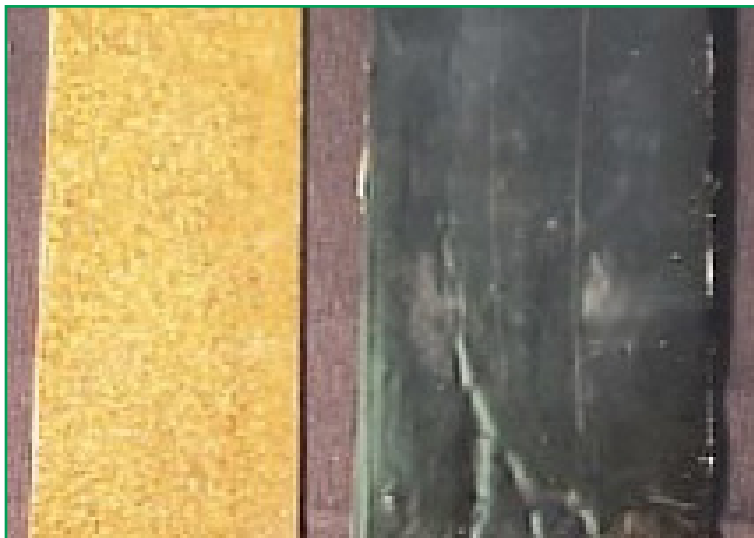


# CorrVerter® Rust Primer



## PRODUCT DESCRIPTION

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. CorrVerter® is formulated to penetrate rust, eliminate rust, penetrate to the bare metal, and stop further rusting.

CorrVerter® contains a novel chemical chelating agent that modifies the surface rust into a hydrophobic passive layer. 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.

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 CorrVerter® and VpCI®-396 provides the best immersion coating for submersion in water, salt water, hydrocarbons, and high salinity water.

## FEATURES

- 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<sub>2</sub>S, SO<sub>2</sub>, & CO<sub>2</sub> 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	11.3-12.0 lb/gal (1.3-1.44 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 ft <sup>2</sup> /gal (4.2-5.6 m <sup>2</sup> /l)

## TYPICAL APPLICATION

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

## 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 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 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.

## STANDARD TEST METHODS

ASTM B-117	Salt Spray
ASTM D-1748	Humidity
ASTM D-3359	Adhesion
ASTM D-522	Flexibility
ASTM D-532	Gloss
ASTM D-3960	VOC
ASTM D-3363	Pencil Hardness
ASTM D-2485-91	High Temperature Service (Method A and B)
NACE RP0487-2000	Selection of Rust Preventives
NACE	Minimum Surface Preparation Guideline
SSPC	Minimum Surface Preparation Guideline

**FOR INDUSTRIAL USE ONLY**  
**KEEP OUT OF REACH OF CHILDREN**  
**KEEP CONTAINER TIGHTLY CLOSED**  
**NOT FOR INTERNAL CONSUMPTION**  
**CONSULT SAFETY DATA SHEET FOR MORE INFORMATION**

## 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

CorrVerter® is available in 5 gallon (19 liter) plastic containers. Keep product from freezing. The shelf life of the coating is one year.

### LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests Cortec® Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed.

Cortec® Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec® Corporation's obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec® Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer.

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