



CORTEC
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

CorrVerter® Rust Converter Primer

DESCRIPTION

CorrVerter® is a fast drying, water-based one coat system (primer) that converts rusted surfaces to a hydrophobic passive layer and prevents further rusting thru the unique formulation of chelating agents and PVC resins. It provides long term corrosion protection by itself or by topcoating for extended performance

PACKAGING & STORAGE

CorrVerter® is available in 1 gallon (3.8liter) and 5 gallon (19 liter) pails. Keep product from freezing.

Product shelf life is 1 year.



CHARACTERISTICS/TECHNICAL DATA

Volume Solids	34.50%
Gloss (ASTM D532)	15-25
VOCs (ASTM D3960)	0.1 lbs/gal (12 g/l)
Viscosity	7,000-20,000 Centipoise
Pencil Hardness (ASTM D3363)	F
Spreading Rate	553 sq.ft/gal @ 1.0 mils DFT (13.57 sq.m/l @25 µm)
Weight per Gallon	11.59 lbs/gal (1.39 kg/l)
Flash Point	>200°F (93°C)
Recommended DFT	3.0-5.0 mils (75-125 µm)
Recommended WFT	8.7-14.5 mils (217.5-362.5 µm)
Dry to Touch	2-3 hrs
Dry to Handle	4-6 hrs
Recoat Time	Dry to touch - 72 hrs, sand thereafter
Force Dry	15-20 min @ 150°F (65°C)
Full Cure	3-7 days
Salt Spray (ASTM B117)	500 hrs
Humidity (ASTM D1748)	250 hrs
Adhesion (ASTM D3359)	5B
Flexibility (ASTM D522)	1/2" mandrel (1.27cm)

*All tests performed after a 7 day cure at ambient temperature

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APPLICATION

Surface Preparation

Substrate should be free of grease, oil, dirt, fingerprints, drawing compounds, rust inhibitors, or any other surface contamination that could affect adhesion. For production line applications, use VpCI®-440 or similar phosphatizing pre-treatment. For structural steel applications, Cortec® recommends a minimum of a NACE #3/ SSPC-SP6 commercial blast clean. Consult Cortec® and/or test system adhesion prior to full scale application. It is recommended to remove any loose rust prior to application.

When solvent based topcoats are applied over CorrVerter®, compatibility must be checked. If not topcoated, coating will turn dark under UV exposure. All Cortec® High Performance Coatings can be topcoated over CorrVerter®.

Note: Make sure dew point is more than 5°F (2°C) less than air temperature for application. Power agitate to a uniform consistency using a "squirrel cage" type mixer, hand-held drill mixer, or other equivalent method. Can be diluted upto 15% with water. CorrVerter® can be applied by spray, roll, brush, or dip.

Typical Equipment Setups

HVLP / Conventional Spray

- Tip .009"-.021" *dependent upon pressures and viscosity
- Air Pressure 45-55 psi
- Fluid Pressure 10 psi
- Fluid hose should be 3/8" (0.95 cm) I.D. with a maximum length of 50 feet (15.2 m). Pot should always have dual regulation and be kept at same elevation as spray gun.

Air Assisted Airless / Airless

- Tip .015"-.035" *dependent upon pressures and viscosity
- Pressure 1800-2500 psi
- Hose should be 3/8" (0.95 cm) I.D. minimum, but a 1/4" (0.64 cm) I.D. whip end section may be used for ease of application. A maximum length of 100 feet (30.5 m) is suggested.

Cleanup

Clean tools/equipment immediately after use with water when paint is still wet. When dry, use Butyl Cellusolve or MEK. Follow mfg's safety recommendations when using any solvent.

4119 White Bear Parkway, St. Paul, MN 55110 USA
Phone (651) 429-1100, Fax (651) 429-1122
Toll Free (800) 4-CORTEC
info@cortecvc.com
http://www.cortecvc.com
http://www.cortecocoatings.com



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