Refurbish your Van and Extend service life Peeling Paint and Rust on Service Vans – Corrosion Cops has DIY













2007 Chevy Van - Purchased (used) February 2009 March 2009 Aloha Signs did our Company lettering





2014 Paint peeling off



Message using CP90



2014 applied CarWell CP90 annually to control rusting



Corrosion Control - Time to refurbish Company Van May 20, 2019



2017 Looking pretty sad



2016 Paint keeps peeling off

Procedure to Refurbish Rusted Van

- 1. Degrease if oils are present on Van surfaces
- 2. Rinse with potable water
- 3. Rinse surface with Salt Away if chlorides present
- 4. Allow surface to dry
- 5. Scrape loose paint from surface
- 6. Surface prep rusted areas with mechanical abrasion
- 7. Sand excessive oxidation/rust to get to tight rust
- 8. Apply Cortec Corrverter* water based rust converter to 5 mil dry coating thickness by applying 3-5 coats allowing each coat to dry to touch before applying next coat.
- 9. Apply Cortec VpCl 396 Moisture Cure Urethane, minimum 3 coats, allowing ample dry to touch time between coats.
- 10. Allow 24-48 cure time.
- 11. Apply finish coat to match vehicle color.

Supplies

- Disposable gloves
- Rags
- Sand paper
- Paint scrapper
- Paint Brushes
- Blower/Shop Vac
- Degreaser
- Salt Away
- Cortec Corrverter Gallon
- Cortec VpCl 396 Moisture Cure Urethane Gallon
- PPE for VpCl 396 application
- Xylene
- Empty Quart Paint Cans (4)
- Finish Color

^{*}Avoid acid based convert a rust product in Hawaii!









Step 5, Step 6 and Step 7 – Prepping surface to tight rust







5-20-2019



Mix thoroughly bottom to top







 $Step~8-Applying~\mathbf{1}^{st}~Coat~of~Cortec~Corrverter~-~\textbf{Water~Based}~Rust~Converter$







1st Coat Cortec Corrverter Dried to touch





Step 8 continued
Applying 2nd Coat of Cortec Corrverter — **Water Based** Rust Converter



5-24-2019



2nd Coat Cortec Corrverter
Dried to touch





Step 8 continued
Applying 3rd Coat - Cortec Corrverter – **Water Based** Rust Converter



5-30-2019

3rd Coat Cortec Corrverter – Dried to touch 5-31-2019



*Go to next slide for Tip on storing VpCl 396 Moisture Cure Urethane







Step 9 – Applying $\mathbf{1}^{st}$ coat - Cortec VpCI-396 Moisture Cure Urethane*

6-6-2019



Cortec VpCI – 396 Moisture Cure Urethane Gallon







Cortec VpCI-396 Storage Tip:
Pour VpCI-396 Gallon into 4 Quart Empty Cans
Fill 90% full and top with Xylene to bottom of rim of paint can.
Hammer lid on, be sure it doesn't leak and store can upside down. Store in cool area.
When ready to use – shake can, open and stir.

After 1st Coat – top VpCI-396 Quart Can off with 1/4" to 1/2" of Xylene. Do not stir or shake. Install lid and do not leave can open. The reason for doing this is to prevent atmosphere from curing the VpCI-396 while waiting for applied coating to dry. The components of urethane paints react with moisture and will go bad. One part urethanes are moisture curing. I use these, in small quantity as well, buy Quart cans to minimize the amount of times they are opened before they are used. If curing starts (I call that plasticing)as VpCI-396 goes into a bondo curing state when allowed to set up, VpCI-396 can be brought back from this by adding xylene to the can and stirring to bring it back to liquid state. If it goes too far in curing it becomes non usable as it may chunk up and not flow and coat properly.



1st Coat VpCl-396 – Dried to touch

Step 9 continued
Applying 2nd coat - Cortec VpCI-396
Moisture Cure Urethane





6-10-2019



Done
DIY Project
Rich took his time
You can complete in couple days
or couple weeks!



After 6-10-2019 Skipped Finish Paint

Before 5-20-2019



Before 5-20-2019



Current 4-9-2020

Another successful DIY by BOCA Hawaii on company Box truck



Before



After January 2017 Skipped Step 9 Did finish paint to match



November 2018



December 2019

Difference – shorter time before onset of rerusting vs LONGER TIME PERFORMANCE Applying Cortec VpCl-396

Cortec Products



CorrVerter® Rust Converter Primer

CorrVerter* is a fast drying, water-based one-coat system 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 PVDC resins.

PACKAGING & STORAGE

gallon (3.8 liter) and 5 gallon (19 liter) pails. Keep product from

Shelf life: 1 Year



CHARACTERISTICS/TECHNICAL DATA

Volume Solids	34.50% =/- 2%
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
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)	½" mandrel (1,27 cm)

CorrVerter® Rust Converter Primer

APPLICATION

Surface Preparation

Substrate should be free of loose rust, grease, oil, dirt, fingerprints, drawing compounds, rust inhibitors (except Cortect approved), or any other surface contamnation that could affect adhesion. Consult Cortect Technical Service and/or test system adhesion prior to fill scale application. It is recommended for remove any foscers tup for the or speciation.

When solvent based topcoats are applied over CorrVerter®, compatibility must be checked. 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 "squired age" (spe mixer, hand-held drill mixer, or other equivalent method. Can be diluted up to 15% with water. Carviverer's can be applied by prayer, (b) brash, or dip.

Typical Equipment Setups

- HVLP / Conventional Spray

 Tip 02"-11" (15-2.2 mm)*dependent upon pressures and viscosity

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 Tip 04"-11" (15-2.2 mm)*dependent upon pressures and viscosity

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 Tip 04"-11"

- Air Assisted Airless / Airless

 * Tip_015*-035** (0.38-0.89 mm)**dependent upon pressures and viscosity

 * Pressure 1805-2050 psi

 * Hose should be 15** (0.95 cm) 1.D. minimum, but a 10** (0.64 cm) 1.D. whip end section may be used for ease of application. A maximum length of 100 feet (3.05 m) is suggested.













VpCI®-396 Moisture Cure Urethane Primer/Topcoat

DESCRIPTION

VpCI*-396 is a fast drying,

Product shelf life is 1 year.



Volume Solids	56.20%
Gloss (ASTM D532)	30-50
VOCs (ASTM D3960)	3.1 lbs/gal (371 g/l)
Viscosity	55-65 sec+ Zahn#3
Pencil Hardness (ASTM D3363)	2H
Spreading Rate	901 sq.ft/gal @ 1.0 mils DFT (22.1 sq.m/l @ 25 µm)
Weight per Gallon	9.39 lbs/gal (1.13 kg/l)
Flash Point	77°F (25°C)
Recommended DFT	2.0-3.0 mils (50-75 µm)
Recommended WFT	3.5-5.3 mils (88-130 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)	750 hrs
Humidity (ASTM D1748)	1000 hrs
Adhesion (ASTM D3359)	58
Flexibility (ASTM D522)	1/2" mandrel (1.27cm)

VpCI®-396 Moisture Cure Urethane Primer/Topcoat

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 VpC-440 or similar phosphatizing pre-treatment for structural select applications, Control recommends a nimitum of a NALE 2 #3.595C-96 commercial blast clean. Consul Cortect Technical Service and/or test system adhesion prior to full scale application.

A wash primer such as VpCl-373 green applied at 0.5-1.0 mils (12.5-25 microns) is recommended before applying th 396 to aluminum, galvanized or plated substrates. When solvent based topcoats are applied over VpCl-396, com

Note: Make sure dew point is more than 5°F (2°C) less than air temperature for application. Humidity must be min. 20%, max. 80%. Power agitate to a uniform consistency using a "squirrel cage" type mixer, hand-held drill mixer, or other equivalent method. yCen-796 can be applied by spray, roll, brush, or dig

Typical Equipment Setups

HYLP / Conventional Spray

- In p. 007-012** dependent upon pressures and viscosity

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Air Assisted Airless (Airless

* Tip, 1915; -0.95* "dependent upon pressures and viscosity

* Priscure 1802-0.05" of pendent of the pressures and viscosity

* Priscure 1802-0.05 (0.95 cm) 1,D. minimum, but a 16*

* Note should be 36° (0.95 cm) 1,D. minimum, but a 16*

* Note of the 10th white pend section may be used for ease of application. A maximum length of 100 feet (10.5 m) is suggested.

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













Cortec Corrverter Gallon



Cortec VpCI - 396 Moisture Cure Urethane Gallon

More information www.corrosioncops.com

Stocked locally contact us (808) 676-1963 or corrosioncops808@gmail.com for pricing and availability