



HIGH PERFORMANCE VpCI® COATINGS

VpCI®-396



PRODUCT DESCRIPTION

VpCI-396 is a high solids aromatic moisture cure urethane. VpCI-396 is a direct to metal primer for multimetal protection. VpCI-396 should be top coated with an aliphatic urethane top coat for best results. In addition to the outstanding barrier protection, VpCI-396 also contains contact corrosion inhibitors for additional protection. VpCI-396 is suitable for immersed structures when applied over VpCI® CorrVerter® for marginally prepared surfaces; such as ballast tanks, storage tanks, or holding tanks containing hydrocarbons to high salinity solutions.

VpCI-396 forms a very hard, but flexible coating that cures in the presence of moisture in the air. For best results the curing conditions required are a relative humidity between 20% and 80% with temperatures above 32°F (0°C) and below 120°F (50°C).

FEATURES

- Single component package
- Can be coated at a relative humidity up to 80%
- Can be applied at low temperatures
- Excellent adhesion
- High solids

METALS PROTECTED

- Aluminum**
- Cast iron
- Galvanized steel**
- Steel

** A wash primer such as VpCI®-373 green applied at 0.5-1.0 mils (12.5-25 microns) is recommended before applying the VpCI-396 to these substrates.

TYPICAL APPLICATIONS

- Bridges
- OEM
- Structural steel
- Storage tanks
- Ballast tanks or ships

TYPICAL PROPERTIES

Appearance	Viscous aluminum liquid
Dry to recoat time	Minimum 4 hr. @ 77°F (25°C), 55% relative humidity
Maximum time to Recoat	2 weeks after initial application (solvent wipe may be required)
Dry to touch time	1 hr. @ 77°F (25°C), 55% relative humidity
Fully Cured	7 days @ 77°F (25°C), 55% RH
Film type	Hard
Flash point	78°F (25°C)
Non-volatile content	63-72% by weight (60-62% by volume)
Shelf life	1 year
Theoretical spread rate	328-481 ft ² /gal @ 2-3 mil DFT (7.9-11.6 m ² /l @ 50-75 microns DFT)
Viscosity	500-1100 cps at 6 rpm
VOC (regulatory)	3.1-3.2 lb/gal (372-384 g/l)
VOC (actual)	3.1-3.2 lb/gal (372-384 g/l)
Density	9.2-9.6 lb/gal (1.10-1.15 kg/l)
Coefficient of Friction	0.20
Adhesion	5B
Film Hardness	4H-7H
Temperature Resistance (Fully Cured)	-150°F to 300°F (-78°C to 150°C)

SURFACE PREPARATION

NACE #2, ARS High A-3, SSPC SP6 or 10. Surface must be dry prior to application of product (no moisture).

APPLICATION

Product Preparation:

Stir VpCI-396 prior to usage. (Do not use a high shear blade).

Methods for Monitoring Application:

Wet film thickness gauge.

Product Application:

Normal wet film thickness of 3-5 mils (75-125 microns) yields 2-3 mils (50-75 microns) dry film thickness. It is recommended under high humidity conditions (60-80%) that the maximum wet film thickness should be reduced to approximately 2-2.5 mils (50-62 microns), and application of two coats may be necessary.

Do not exceed 3 dry mils (75 microns).

Recommended use of Airless Spray:

Manufacturer	Gun Model	Tip/Aircap Combination
Graco	205-591	Bulldog
Binks	500	Mercury 5C
DeVibiss	JGN-501	QFA-519

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

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.

Cortec Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products.

Hose should be 3/8" (0.95 cm) I.D. minimum, but a 1/4" (0.6 cm) I.D. whip end section may be used for ease of application. A maximum length of 100 feet (30.5 m) is suggested. Best results will be obtained using a 0.013"-0.017" (0.03 cm - 0.04 cm) tip at 1200-1700 psi (83-117 bar).

NOTE: Nylon or Teflon type packings are available from pump manufacturer and are highly recommended.

NOTE: Similar equipment may be suitable.

Product Cleanup:

Low flash point solvent (xylene, toluene, aromatic 100)

TEST DATA [AT 2 MILS (50 MICRONS)] DFT*

Test Method	SAE 1010 Carbon Steel
Salt Spray (ASTM B 117)	900-1000 hours
Humidity (ASTM D 1748)	1000+ hours

*Dry Film Thickness

PACKAGING AND STORAGE

VpCI-396 is available in 5 gallon (19 liter) metal pails. One gallon pails available upon request.


Important: A partially used container must be purged with nitrogen to prevent a reaction in the can if it is not used within one day!

LIMITATIONS

Apply VpCI-396 only at relative humidity of between 20% and 80%. Air temperature should be between 32°F and 100°F (0°C and 38°C).



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