



HIGH PERFORMANCE VpCI™ COATINGS

VpCI® -396



PRODUCT DESCRIPTION

VpCI® -396 is a high solids, aromatic moisture cure urethane for use on marginally prepared structural steel. VpCI® -396 is a direct to metal primer for multimetal protection. For indoor, or sheltered outdoor applications, VpCI® -396 can be used as a single coating system. For outdoor application with high UV exposure, VpCI® -396 should be top coated with aliphatic urethane top coat for best results. In addition to the outstanding barrier protection, VpCI® -396 also contains Vapor phase Corrosion Inhibitors for additional protection. VpCI® -396 is suitable for immersed structure when applied over CorrVerter® for marginally prepared surfaces i.e. ballast tanks or ships.

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

FEATURES

- Low VOC
- 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

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. @ 75°F (24°C), 50% relative humidity
Maximum time to Recoat	2 weeks after initial application (solvent wipe may be required)
Dry to touch time	1 hr. @ 75°F (24°C), 50% relative humidity
Film type	Hard
Flash point	78°F (25°C)
Non-volatile content	67-72% by weight (60-62% by volume)
Shelf life	1 year
Theoretical spread rate	978 ft ² /gal @ 1-mil DFT (24 m ² /l @ 25 micron DFT)
Viscosity	500-1100 cps at 6 rpm
VOC	2.8 lb/gal (0.33 kg/l)
Density	9.2-9.7 lb/gal (1.10-1.16 kg/l)
Coefficient of Friction	0.20
Adhesion	5B
Film Hardness	4H-7H



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Environmentally Safe VCI/MCI® Technologies

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 VpCl® -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 3-4 mils (75-100 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.

Recommended use of Airless Spray:

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

Top Coating:

VpCl-396 should be tip coated as soon as it is hard. This ideal coating window will normally be between one and 16 hours, depending upon humidity and temperature.

Overcoating after this time may require roughening the coating surface. Poor adhesion of the top coat may result if these measures are not taken.

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)

PACKAGING AND STORAGE

VpCl® -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 VpCl® -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).

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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4119 White Bear Parkway, St. Paul, MN 55110 USA
Phone (651) 429-1100, Fax (651) 429-1122
Toll Free (800) 4-CORTEC, E-mail info@cortecvci.com
Internet <http://www.CortecVpCl.com>

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