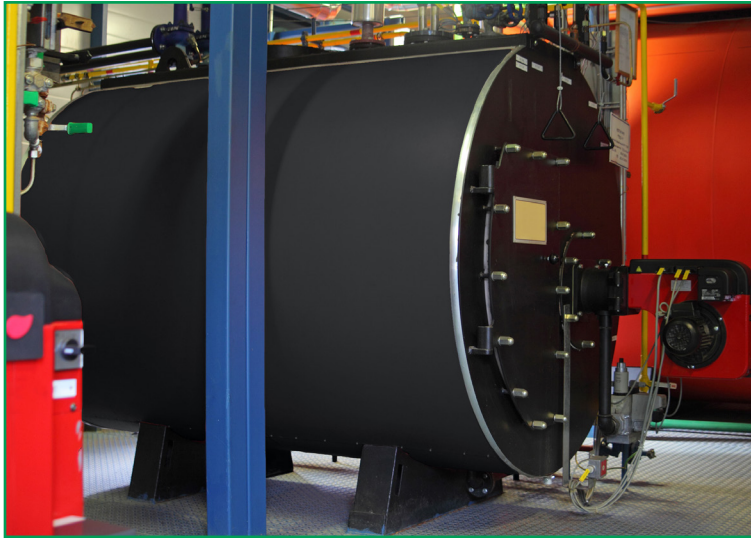




## MICRO-CORROSION INHIBITING COATINGS POWERED BY NANO VPCL®

# VpCl®-386 HT Black



### PRODUCT DESCRIPTION

VpCl®-386 HT Black is a unique, high heat resistant water-based acrylic silicone primer/topcoat. The complex mixture of non-toxic, organic inhibitors, and silicone compounds offers excellent outdoor weathering and thermal heat protection.

VpCl®-386 HT Black has been improved by using a blend of highly corrosion resistant silicone polymers and additives that provides a composite polymer barrier film. The protective coating significantly retards the reaction of metal ionization and water permeation which protects against corrosive electrolyte and aggressive environments, thus preventing corrosion.

VpCl®-386 HT Black provides a fast-drying thixotropic coating that is resistant to sagging or running. This unique coating offers extended protection for sheltered, unsheltered, outdoor, or indoor conditions. Thermally stable when dried from -150°F to 500°F (-78° to 260°C). The coating is ultraviolet resistant and gives optimal outdoor performance without cracking or chipping upon prolonged exposure to sunlight.

### FEATURES

- Heat resistant up to 500°F
- Fast-drying
- UV resistant
- Optimal outdoor performance

### MIXING INSTRUCTIONS

This coating is supplied in a single component. Power agitate at low speed to a uniform consistency using a “squirrel cage” type mixer, hand-held drill mixer, or other equivalent method.

### APPLICATION

VpCl®-386 HT Black can be used as a topcoat/primer. When solvent-based topcoats are applied over VpCl®-386 HT Black, compatibility must be checked. VpCl®-386 HT Black can also be used as a topcoat with Cortec® VpCl®-374 or VpCl®-395 as a primer.

Note: It is not recommended to apply at temperatures below 55°F (13°) and/or when dew point is within 5°F (-15°C) of air temperature. VpCl®-386 HT Black can be applied via spray, roller, or brush.

### METALS PROTECTED

- Carbon steel
- Cast iron
- Aluminum\*\*
- Stainless steel
- Galvanized steel\*\*
- Copper

\*\* A wash primer such as VpCl®-373 green applied at 0.5-1.0 dry mils (12.5-25 microns) is recommended before applying the VpCl®-386 HT Black to these substrates.

### TEST DATA

	CS 1010	Aluminum
Salt Spray (ASTM B117)	500+ hr.*	1000+ hr.
Humidity (ASTM D1748)	1000+ hr.	1000+ hr.

\*1.5 to 2-mils (37.5 to 50 microns)



Passes:

ASTM D-2485-91: Standard Test Methods for evaluating coatings for High Temperature Service (Method A) (After heating)

## Conventional Spray

Manufacturer	Gun Model	Tip/Aircap Combination
DeVilbiss	MBC or JGA	704E
Binks	#18 or #62	66PE

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.

## Airless

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

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. Best results will be obtained using a 0.013"-0.017" (0.3-0.4 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.*

## PACKAGING AND STORAGE

VpCI®-386 HT Black is available in 5 gallon (19 liter), 55 gallon (208 liter), liquid totes, and bulk. Keep product from freezing. Avoid temperatures higher than 75°F (24°C) while in storage.

**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**

## TYPICAL PROPERTIES

Appearance	Black Liquid
pH	8.7-9.3 (Neat)
Density	8.6-8.8 lb/gal (1.03-1.05 kg/l)
Non-volatile Content	33-43%
Fully Cured	7 days at 77°F (25°C) 55% RH
Dry Film Thickness (per coat)	1.0-2.0 mils (25-50.8 μm)
Theoretical Spread Rate	224-561 ft <sup>2</sup> /gal (1-2.5mils) 5.2-14m <sup>2</sup> /l mils (25-67.5 μm)
Dry to Touch Time	30 minutes @ 77°F (25°C)
VOC Regulatory	~1.81 lb/gal (~141 g/L)
VOC Actual	~0.5 lb/gal (~64 g/L)
Viscosity	800-1600 cps (6 rpm/#3)
Shelf life	12 months
Temperature Resistance (Fully Cured)	-150°F to 500°F (-78°C to 260°C)

## 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

### LIMITED WARRANTY

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