



MICRO-CORROSION INHIBITING COATINGS POWERED BY NANO VPCL®

VpCl®-368 / VpCl®-368 EVP



PRODUCT DESCRIPTION

VpCl®-368 is a time-proven coating that provides excellent protection to metal substrates exposed to harsh outdoor conditions. VpCl®-368 leaves a firm, wax-like film that can be removed by mineral spirits or alkaline cleaners such as Cortec® VpCl®-414.

VpCl®-368 EVP is available for applications in complex, sealed spaces where a greater concentration of vapor inhibitor would be needed.

FEATURES

- Flexible
- Excellent salt spray protection
- Excellent outdoor protection
- Multimetal protection
- Excellent UV resistance
- Moisture displacing
- Cured film is heat stable up to 392°F (200°C)
- Commercial equivalent to MIL-PRF-16173E (Grades 1 and 2)
- NATO 6850-66-132-5848
- NATO 6850-66-132-6099
- NSN 8030-00-062-6950
- NSN 8030-00-231-2345
- NSN 8030-00-244-1300
- NSN 8030-01-470-2601

TYPICAL APPLICATIONS

- Pipe coating
- Parts storage
- Underbody coating
- Wire rope
- Steel plate
- Machined parts

METALS PROTECTED

- Carbon Steel
- Stainless Steel
- Copper
- Aluminum
- Cast Iron

PROTECTION PROPERTIES

	ASTM	DFT	Carbon Steel (1010)
Salt Spray	B-117	2-3 mils (50-75 microns)	900-1500 hr
Prohesion	G-85	4-7 mils (100-175 microns)	2000 hr
Humidity	D-1748	2-3 mils (50-75 microns)	2500+ hr

APPLICATION

VpCl®-368 may be applied by brushing or spraying. A film thickness of at least 2-3 mils (50-70 microns) is recommended for uncovered outdoor storage.

Surface Preparation:

NACE	SSPC	ARS
3 or 4	6 or 7	High B-2

Product Cleanup:

- Use solvents or mineral spirits for cleanup of equipment.
- Solvent, wax strippers, or alkaline cleaners such as VpCl®-414 can be used for clean up of overspray.



TYPICAL PROPERTIES

Appearance	Dark brown viscous liquid
Coverage	300-330 ft ² /gal @ 3 mils (7-8 m ² /l @ 75 microns)
Dry Film Time	12-24 hours
Drying to Touch Time	0.5-3 hours
Film Type	Firm, wax-like
Removal Method	Petroleum solvents
Carrier	Mineral spirits
Shelf Life	24 months @ 75°F (24°C)
Non-volatile Content	60-65%
Viscosity at 23°C	600-5,000 cps (6 rpm) Spindle #2
VOC	2.9-3.1 lb/gal (347-372 g/l)
Density	7.4-7.7 lb/gal (0.89-0.92 kg/l)

Note: Coating dry time is affected by temperature, air-flow and humidity.

STANDARD TEST METHODS

ASTM D-1735	Water Fog Cabinet
ASTM D-1748	Humidity Cabinet
ASTM B-117	Salt Fog Cabinet
ASTM D3690	VOC
ASTM D522	Flexibility
MIL-PRF-16173E	Grade 2
NACE	Minimum Surface Preparation Guideline
NACE RP0487-2000	Selection of Rust Preventives
SSPC	Minimum Surface Preparation Guideline

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

PACKAGING AND STORAGE

VpCI®-368 is available in 5 gallon (19 liter) steel pails, 55 gallon (208 liter) metal drums, totes, and bulk.

Available as CorShield® VpCI®-368 in 11 oz. (312 g) aerosol cans.

RECOMMENDED SPRAY EQUIPMENT

This information is based on spraying VpCI®-368 at 3 parts concentrate to 1 part mineral spirits. A ready-to-use version of VpCI®-368 is also available. The viscosity range is between 100-1,000 cps. If using a dilution other than this, please consult a Cortec® or Graco representative.

Model	510 Airless/AA Plus
Pump	30:1 President
Tip	0.011-0.015 in (0.028-0.038 cm)
Cap	Standard
Filter	60 Mesh High Pressure
Air Pressure	80 psi
Fluid Hose	3/8" x 10' with 1/4" whip hose for ease of handling
Fluid Pressure	2000/1700 psi (138/117 bar) (Supply/Gun)

The minimum fluid atomization pressure required is 1500 psi (103 bar), which gives 2-4 mils (50-100 microns) WFT/pass.

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