



CORTEC
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

CorShield® VpCI®-369 Open Atmosphere Removable Coating

DESCRIPTION

CorShield® VpCI®-369 is an oil-based temporary coating that provides extreme corrosion protection in aggressive environments and is one of our most-popular wet film corrosion inhibitors and lubricants. Can be matched to some custom colors.

Commercial equivalent to MIL – PRF – 16173E (Grades 2), NSN 8030-00-244-1295, 244-1297, 244-1298, 01-149-1731.

UFI: 1KTX-A14E-NU18-EAEC

PACKAGING & STORAGE

CorShield® VpCI®-369 is available in 5 gallon (19 L) pails, 55 gallon (208 L) metal drums, liquid totes, and bulk.

CorShield® VpCI®-369 is also available in 11 oz. (312 g) aerosol cans.

To ensure best product performance, store in original packaging, indoors, and out of direct sunlight at 40-100 °F (4-38 °C).

Shelf life: 2 years



CHARACTERISTICS/TECHNICAL DATA

Volume Solids	99.20%
Gloss (ASTM D532)	NA
VOCs (ASTM D3960)	0.21 lb/gal (25 g/L)
Viscosity	10,000-45,000 cPs @ 77 °F (25 °C), 50-70 sec #3 Zahn Cup #3, 6000 cPs @ 104 °F (40 °C)
Pencil Hardness (ASTM D3363)	NA
Spreading Rate	1588 sq.ft/gal @ 1.0 mils DFT (38.9 sq.m/L @ 25 µm)
Weight per Gallon	7.5-8.4 lbs/gal (0.9-1kg/L)
Flash Point	248 °F (120 °C)
Recommended DFT	1.0-3.0 mils (25-75 µm)
Recommended WFT	1.0-3.0 mils (25-75 µm)
Dry to Touch	NA
Dry to Handle	NA
Recoat Time	NA
Force Dry	NA
Full Cure	NA
Salt Spray (ASTM B117)	500 hrs
Humidity (ASTM D1748)	4000 hrs
Adhesion (ASTM D3359)	NA
Flexibility (ASTM D522)	½" mandrel (1.27 cm)

All tests performed after a 7 day cure at ambient temperature

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APPLICATION

Surface Preparation

Substrate should be free of grease, oil, dirt, fingerprints, drawing compounds, rust inhibitors (except Cortec® approved), or any other surface contamination that could affect adhesion. Cortec® recommends a minimum of a SSPC-SP1 over painted surfaces. For bare metal applications, Cortec® recommends a NACE #3/SSPC-SP6. Consult Cortec® Technical Service and/or test system adhesion prior to full scale application.

Power agitate to a uniform consistency using a “squirrel cage” type mixer, hand-held drill mixer, or other equivalent method. CorShield® VpCI®-369 can be applied by spray, roll, brush, or dip.

Typical Equipment Setups

HVLP / Conventional Spray

- Tip 0.02”-0.11” (0.5-2.8 mm) dependent upon pressures and viscosity
- Air Pressure 45-55 psi
- Fluid Pressure 10 psi
- Fluid hose should be 3/8” (0.95 cm) I.D. with a maximum length of 50 feet (15.2 m). 1/4” (0.64 cm) I.D. fluid hose can be used, but pressures may need to be adjusted. Pot should always have dual regulation and be kept at same elevation as spray gun.

Cleanup

Clean tools/equipment immediately after use with Butyl Acetate when coating is still wet. For removal of CorShield® VpCI®-369 applied to a metal surface, use a VpCI®-41x Series alkaline cleaner/degreaser. Follow mfg’s safety recommendations when using any solvent.

Air Assisted Airless / Airless

- Tip 0.015”-0.035” (0.38-0.89 mm) dependent upon pressures and viscosity
- Pressure 1800-2500 psi
- 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.

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.

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