

VpCI®-389 D Water-Based Temporary Coating

DESCRIPTION

VpCI®-389 D is a ready-to-use, fast drying, water-based temporary coating that provides protection in harsh, outdoor, unsheltered applications. Provides multi-metal protection. Excellent UV resistance. Can be matched to some colors. Provides a slightly tacky film.

PACKAGING & STORAGE

VpCI®-389 D is available in 5 gallon (19 L) pails, 55 gallon (208 L) metal drums, liquid totes, and bulk.

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	18.5%
Gloss (ASTM D532)	NA
VOCs (ASTM D3960)	0.1 lbs/gal (12 g/L)
Viscosity	5,500-10,000 Centipoise
Pencil Hardness (ASTM D3363)	NA
Spreading Rate	298 sq.ft/gal @ 1.0 mils DFT (7.3 sq.m/L @ 25 µm)
Weight per Gallon	8.32 lbs/gal (1.00 kg/L)
Flash Point	180 °F (82 °C)
Recommended DFT	1.0-2.0 mils (25-50 µm)
Recommended WFT	2.7-5.4 mils (67.5-135 µm)
Dry to Touch	10-60 min
Dry to Handle	20-60 min
Recoat Time	NA
Force Dry	15-20 min @ 150 °F (65 °C)
Full Cure	3-7 days
Salt Spray (ASTM B117)	600 hrs
Humidity (ASTM D1748)	1000 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 an 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.

Note: Make sure dew point is more than 5 °F (2 °C) less than air temperature for application. Power agitate to a uniform consistency using a “squirrel cage” type mixer, hand-held drill mixer, or other equivalent method. VpCI®-389 D 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.

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.

Cleanup

Clean tools/equipment immediately after use with water when coating is still wet. For removal of VpCI®-389 D applied to a metal surface, use a VpCI®-41x series alkaline cleaner/degreaser. Follow mfg’s safety recommendations when using any solvent.

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.

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