

VpCI®-371 High Temperature Coating

DESCRIPTION

VpCI[®]-371 is a fast drying, solvent-based silicone one coat system (topcoat) that can be applied DTM (Direct to Metal) and provides protection in harsh, outdoor, unsheltered applications and is designed for use in high temperature applications, 400 °F (204 °C) -1200 °F (649 °C). The complex mixture of non-toxic, organic inhibitors offer protection that competes with most paints and zinc-rich primers.

Provides multi-metal protection. Excellent UV resistance.

Available in aluminum color only.

PACKAGING & STORAGE

VpCI[®]-371 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	37.10%
Gloss (ASTM D532)	80+
VOCs (ASTM D3960)	3.3 lbs/gal (395 g/L)
Viscosity	30 sec+ Zahn #3
Pencil Hardness (ASTM D3363)	5B
Spreading Rate	593 sq.ft/gal @ 1.0 mils DFT (14.55 sq.m/L@ 25 μm)
Weight per Gallon	8.84 lbs/gal (1.06 kg/L)
Flash Point	77 °F (25 °C)
Recommended DFT	1.0-2.0 mils (25-50 μm)
Recommended WFT	3.0-5.4 mils (75-135 μm)
Dry to Touch	20 min to 5B Hardness
Dry to Handle	40 min
Recoat Time	Dry to touch - 72 hrs
Force Dry	15-20 min @ 150 °F (65 °C)
Full Cure	30 min at 500 °F (260 °C) to 9H Hardness
Salt Spray (ASTM B117)	600 hrs
Humidity (ASTM D1748)	300 hrs
Adhesion (ASTM D3359)	5B
Flexibility (ASTM D522)	½" mandrel (1.27 cm)

All tests performed after a 7 day cure at ambient temperature

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. For production line applications, use VpCI[®]-440 or similar phosphatizing pre-treatment. 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.

A wash primer such as VpCl[®]-373 green applied at 0.5-1.0 mils (12.5-25 microns) is recommended before applying the VpCl[®]-371 to aluminum, galvanized or plated substrates.

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®-371 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 ¾" (0.95 cm) I.D. minimum, but a ¼" (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.

<u>Cleanup</u>

Clean tools/equipment immediately after use with Butyl Acetate when coating is still wet. When dry, use Butyl Cellusolve or MEK. Follow mfg's safety recommendations when using any solvent.







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