

VpCI®-373 Water Based Wash Primer

DESCRIPTION

VpCI®-373 is a fast drying, water-based acrylic one coat system (primer) that provides phenomenal adhesion on tough to adhere to surfaces including aluminum, galvanized, stainless steel and other plated surfaces. The complex mixture of non-toxic, organic inhibitors offers protection that competes with most paints and zinc-rich primers. Provides multi-metal protection. Available in clear and olive green only.

Commercial equivalent to MIL-P-15328D.

NSN#8010-01-470-2739.

PACKAGING & STORAGE

VpCI®-373 is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) metal drums, liquid totes, and bulk. Keep product from freezing.

Product shelf life is 1 year.



CHARACTERISTICS/TECHNICAL DATA

Volume Solids	30.90%
Gloss (ASTM D532)	15-25
VOCs (ASTM D3960)	0.6 lbs/gal (72 g/l)
Viscosity	18-45 sec # 3 Zahn Cup
Pencil Hardness (ASTM D3363)	HB
Spreading Rate	495 sq.ft/gal @ 1.0 mils DFT (12.1 sq.m/l@25 µm)
Weight per Gallon	10.17 lbs/gal (1.22 kg/l)
Flash Point	130 °F (54 °C)
Recommended DFT	.5-1.0 mils (12.5-25 µm)
Recommended WFT	1.6-3.3 mils (40-82.5 µm)
Dry to Touch	20 min
Dry to Handle	40 min
Recoat Time	Dry to touch - 72 hrs, sand thereafter
Force Dry	15-20 min @ 150 °F (65 °C)
Full Cure	3-7 days
Salt Spray (ASTM B117)	72 hrs
Humidity (ASTM D1748)	100 hrs
Adhesion (ASTM D3359)	5B
Flexibility (ASTM D522)	1/2" mandrel (1.27cm)

*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. For production line applications, use VpCI®-440 or similar phosphatizing pre-treatment. Cortec® recommends a minimum of a NACE #5/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.

When solvent based topcoats are applied over VpCI®-373, compatibility must be checked. Cortec® recommended topcoats include VpCI®-280, 380, 381, 386, 387, 390, 392, 382, and 384.

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®-373 can be applied by spray, roll, brush, or dip.

Typical Equipment Setups

HVLP / Conventional Spray

- Tip .02"-.11" *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 .015"-.035" *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 paint is still wet. When dry, use Butyl Cellusolve or MEK. Follow mfg's safety recommendations when using any solvent.

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