

# 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<br>(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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#### 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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