

# VpCI®-389 Water Based Temporary Coating

## DESCRIPTION

VpCI®-389 is a 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 custom colors. Provides a slightly tacky film.

## PACKAGING & STORAGE

VpCI®-389 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                | 37.10%                                                |
| 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               | 595 sq.ft/gal @ 1.0 mils DFT<br>(14.6 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)      | 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, or any other surface contamination that could affect adhesion. For structural steel applications, Cortec® recommends a minimum of a NACE #3/SSPC-SP6 commercial blast clean. Consult Cortec® 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 can be applied by spray, roll, brush, or dip.

### Typical Equipment Setups

#### HVLP / Conventional Spray

- Tip .009”-.021” \*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). 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 coating is still wet. When dry, use Butyl Cellusolve or MEK. Follow mfg’s safety recommendations when using any solvent.



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