



## HIGH PERFORMANCE VpCI™ COATINGS

# VpCI™-375 One Coat



### PRODUCT DESCRIPTION

VpCI-375 is a unique, water-based acrylic one coat system (primer & topcoat) that successfully provides protection in harsh, outdoor, unsheltered applications. The complex mixture of non-toxic, organic inhibitors offers protection that can compete with most paints and zinc-rich primers.

VpCI-375 provides a fast-drying thixotropic coating that is resistant to sagging or running, forming a tough, protective barrier. This dry-to-touch film offers extended protection for outdoor or indoor conditions. It gives optimal outdoor performance without cracking or chipping upon prolonged exposure to sunlight.

### FEATURES

- Fast-drying
- Non-flammable
- UV resistant when dried
- Optimal outdoor performance
- Can be used as one coat system (primer & topcoat)
- Provides multimetal protection

### METALS PROTECTED

- Carbon steel
- Aluminum
- Stainless steel
- Galvanized steel

### CORROSION RESISTANCE DATA\*

|  | Dry Film Thickness<br>Mils (Microns) | Hours to Failure                               |
|--|--------------------------------------|--|
| ASTM B-117<br>(Salt-spray)                               | 4.0-4.5<br>(100.0-112.5)             | 2500 +   |
| ASTM D1748<br>(Humidity)                                 | 4.0 - 4.5<br>(100-112.5)             | 2000 +   |
| ASTM D870<br>(Water Immersion<br>recovery<br>Resistance) | 4.0 (100)                            | 5B Adhesion<br>after 24 hours<br><br>312 hours |

### TYPICAL PROPERTIES\*

|   |  |
|---|--|
| Appearance                              | Liquid, various colors   |
| Density                                 | 8.5-10.2 lb/gal<br>(1.01-1.22 kg/l)  |
| Non-volatile Content                    | 40-52%   |
| Dry Film Thickness<br>(per coat)        | 3.0-5.0 mils<br>(75-125 microns)   |
| Theoretical Spread Rate                 | 128-214 ft <sup>2</sup> /gal (3-5 mils)<br>(3.2-5.3 m <sup>2</sup> /l)<br>(75-125 microns) |
| Dry to Touch Time                       | 20 minutes @ 77°F<br>(25°C)<br>at 3 mils (75 microns)<br>WFT                               |
| Fully Cured                             | 7 days@77°(25°C)<br>55% RH   |
| Temperature Stability                   | 45°-90°F (7°-32°C)   |
| VOC (ASTM D-3960)                       | 1.2-1.5 lb/gal<br>(144-180 g/l)  |
| Viscosity                               | 800-4,000 CPS @<br>77°F (25°C)**   |
| Gloss (ASTM D532)                       | 50 max   |
| Pencil Hardness<br>(ASTM D3363)         | H  |
| Adhesion (ASTM D3359)                   | 5B   |
| Flexibility (ASTM D522)                 | 1/2" 180°bend  |
| Temperature resistance<br>(Fully Cured) | -150°F to 350°F<br>(-78°C to 180°C)  |



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Environmentally Safe VpCI™/MCP® Technologies

## APPLICATION

VpCI-375 when applied in 4 mil DFT can be used as a topcoat and primer. VpCI-375 can also be used as a topcoat with Cortec® VpCI™ -374 primer. When solvent-based topcoats are applied over VpCI-375, compatibility must be checked.

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-375 can be applied by spray, roll, brush or dip.

### Conventional Spray

| Manufacturer | Gun Model  | Tip/Aircap Combination |
|--------------|------------|------------------------|
| DeVilbiss    | MBC or JGA | 704E                   |
| Binks        | #18 or #62 | 66PE                   |

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.

## Airless

| Manufacturer | Gun Model | Tip/Aircap Combination |
|--------------|-----------|------------------------|
| Graco        | 205-591   | Bulldog                |
| Binks        | Model 500 | Mercury 5C             |
| DeVilbiss    | JGN-501   | QFA-519                |

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. Best results will be obtained using a 0.013"-0.017" (0.3-0.4 cm) tip at 1200-1700 psi (83-117 bar).

Note: Nylon or Teflon type packings are available from pump manufacturer and are highly recommended.

Note: Similar equipment may be suitable.

## PACKAGING AND STORAGE

VpCI-375 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.

## FOR INDUSTRIAL USE ONLY

**KEEP OUT OF REACH OF CHILDREN**

**KEEP CONTAINER TIGHTLY CLOSED**

**NOT FOR INTERNAL CONSUMPTION**

**CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION**

\*All tests performed after a 7 day cure at ambient temperature

\*\* Viscosity can be set per customer request.

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