



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

TYPICAL PROPERTIES*

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