



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, non-flammable, 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

(on carbon steel 1010 Q-panels)		
	Dry Film Thickness	Hours to Failure
	Mils (Microns)	
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	9.4-10.0 lb/gal (1.13-1.20 kg/l)
Non-volatile Content	40-45%
Dry Film Thickness (per coat)	3.0-5.0 mils (75-125 microns)
Theoretical Spread Rate	214-240ft ² /gal(5.2- 5.8m ² /l)
Dry to Touch Time	20 minutes @ 75°F (24°C) at 3 mils (75 microns) WFT
Temperature Stability	45°-90°F (7°-32°C)
VOC (ASTM D-3960)	1.436 lb/gal (171 g/l)
Viscosity	800-2,000 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 275°F (-78°C to 130°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 & 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.

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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