



## HIGH PERFORMANCE VCI COATINGS

# VCI-374

### PRODUCT DESCRIPTION

VCI-374 is an environmentally friendly waterborne metal primer with outstanding corrosion resistance. This coating is based on a hydrophobic latex resin system. Several types of corrosion inhibitors are combined to work together to stop rust in this coating formulation.

VCI-374 is designed to be used with other waterborne topcoats. Several solvent-based top coats can also be coated over VCI-374 (provided compatibility has been checked).

VCI-374 is a fast-drying, thixotropic, low viscosity coating that resists sagging. It also has excellent resistance to settling in the can. This dry-to-touch film offers extended protection in sheltered or unsheltered, outdoor or indoor conditions. Excellent flexibility gives optimal outdoor performance without cracking or chipping due to prolonged exposure to sunlight.

### METALS PROTECTED

- Carbon Steel
- Cast Iron
- Aluminum
- Stainless Steel

### APPLICATION

Check for settling in the can. If necessary, gently agitate to a uniform consistency using a "squirrel cage" type mixer, hand-held drill mixer, or other equivalent method. Do not induce a vortex.

### 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 the same elevation as the spray gun.

### Airless:

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

Hose should be 3/8" (0.95 cm) I.D. minimum, but a 1/4" (0.6 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" (0.03 cm - 0.04 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.

### Thinning/Cleanup:

Recommended Thinner	Fresh Water
Airless Spray	None required

## TYPICAL PROPERTIES

Appearance	Gray viscous liquid
Non-volatile Content	46-51%
pH	8.5-9.5 (Neat)
Density	9.7-10.2 lb/gal (1.16-1.22 kg/l)
Solids by Volume	35-39%
Recommended DFT	1.5-3.0 mils (37.5-75 microns)
Theoretical Spread Rate	613 ft <sup>2</sup> /gal @ 1 mil 15 m <sup>2</sup> /l @ 25 microns
Dry to Touch Time*	30 minutes @ 75°F (24°C)
Temperature Stability	45°-90°F (7°-32°C)
Minimum Interval before	Overcoating (Varies) 0.5-6.0 hours
Flash Point	>248°F (120°C)
VOC (ASTM-3960)	1.2 lb/gal (143.8 g/l)
Viscosity	1600-2200 cps

\*Can be reduced with an increase in air flow

## CORROSION RESISTANCE DATA

(on carbon steel 1010 Q-panels)

	Dry Film Thickness Mils (Microns)	Hours to Failure
ASTM B-117 (Salt spray)	2.0 (50)	800-1100
ASTM D-1748 (Humidity)	2.0 (50)	2000+
ASTM G-85 A5 (Prohesion)	2.0 (50)	800-1100

## PACKAGING AND STORAGE

VCI-374 is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk. Store in heated warehouse to avoid freezing. VCI-374 has a shelf life of 12 months.

Minimum storage temperature: 35°F (2°C)  
Maximum storage temperature: 120°F (49°C)

## 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**

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printed on recycled paper 10% post consumer

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Certificate No. 70781