



## 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**

## LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests Cortec Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed.

Cortec Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec Corporation's obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer.

Cortec Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products.

**BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE, AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.** No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of Cortec Corporation.

**THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO CASE SHALL CORTEC CORPORATION BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.**



4119 White Bear Parkway, St. Paul, MN 55110 USA  
Phone (651) 429-1100, Fax (651) 429-1122  
Toll Free (800) 4-CORTEC, E-mail info@cortecvci.com  
Internet <http://www.cortecvci.com>

Distributed by:



OTiK Sp. z o.o.

ul. Hutnicza 4

81-061 Gdynia

tel.: 58 6230498

fax: 58 6230496

[otik@use.pl](mailto:otik@use.pl)

[www.inhibitory.use.pl](http://www.inhibitory.use.pl)

printed on recycled paper 10% post consumer

Revised 10/9/00. Cortec Corporation 2000. All rights reserved. Supersedes: 1/20/99.



Certificate No. 70781