VpCI®-386/386 Winterized Acrylic Primer/Topcoat



PRODUCT DESCRIPTION

VpCI-386 is a unique water-based acrylic primer/topcoat that successfully provides protection in harsh, outdoor, unsheltered applications. The complex mixture of nontoxic organic inhibitors offers protection that can compete with most paints and zinc-rich primers.

VpCl-386 is superior to many coatings with inorganic pigments because the resistance has been improved by replacing pigments and metal oxides with more effective organic corrosion inhibitors. The special combination of additives provides a composite polymer barrier that significantly retards the reaction of metal ionization. A protective film is adsorbed onto metal surfaces. It protects against corrosive electrolytes and aggressive environments; preventing corrosion.

VpCl-386 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. Thermally stable when dried from -150°F to 350°F (-78°C to 180°C). The coating is ultraviolet resistant giving optimal outdoor performance without cracking or chipping upon prolonged exposure to sunlight.

VpCI-386 is also available in a cold weather version-VpCI-386 Winterized.

VpCI-386 Winterized was developed to withstand Freeze/ Thaw damage during transportation in cold temperatures down to -0° (-18°C) passing 3 Freeze/Thaw cycles.

FEATURES

- Fast-drying, non-flammable
- UV resistant when dried
- Forms non-flammable, protective barrier
- Optimal outdoor performance
- Clear coating allows visual inspection of metal substrate
- NSN 8030-01-481-8897, standard VpCI-386 only

METALS PROTECTED

- Carbon steel
- Cast iron
- Aluminum
- Stainless steel
- Galvanized steel*
- Copper

APPLICATION

VpCI-386/386 Winterized

These products can be used as a topcoat/primer. When solvent-based topcoats are applied over VpCl-386/386 Winterized, compatibility must be checked. These can also be used as a topcoat with Cortec® VpCl-374 as a primer.

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-386 can be applied by spray, roll, brush, or dip.

*Use a coat of VpCI-373 green before using VpCI-386 on galvanized.

VpCI-386/386 Winterized TEST DATA [at 2 mils (50 microns)] DFT*

Test Method	SAE 1010 Carbon Steel	Aluminum
Salt Spray (ASTM B117)	168 hours	1000+ hours
Humidity (ASTM D1748)	1000+ hours	1000+ hours
QUV (ASTM G 53)	1000+ hours	1000+ hours

^{*}Dry Film Thickness



TYPICAL PROPERTIES VpCI-386 Acrylic Primer Topcoat

Appearance Colors available pH Density* Non-volatile Content* Dry Film Thickness

Theoretical Spread Rate*

Dry to Touch Time

Fully Cured
Temperature Stability
VOC (regulatory)
VOC (actual)
Viscosity
Temperature Resistance
(Fully Cured)

Liquid standard and custom colors 8.5-9.7 (Neat) 8.0-10.5 lb/gal (0.96-1.26 g/l) 32-50% 1.5-3.0 mils (37.5-75 μ m) (per coat) 187-374 ft²/gal @ 1.5-3 mils (4.6-9.3 m²/l @ 37.5-75 μ m) 30 minutes @ 77°F (25°C) (2 mils (50 μ m) DFT) 7 days @ 77°F (25°C) 55% RH

7 days @ 77°F (25°C) 55% RH 45°F-90°F (7°C-32°C) 1.6-1.8 lb/gal (167-216 g/l) 0.6-0.8 lb/gal (72-96 g/l) 700-3,000 cps (6 rpm/#2) -150°F to 350°F (-78°C to 180°C)

PACKAGING AND STORAGE

VpCl-386 is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) metal drums, liquid totes, and bulk. VpCl-386 Winterized is available in clear only. Do not store product in freezing temperatures.

FOR INDUSTRIAL USE ONLY
KEEP OUT OF REACH OF CHILDREN
KEEP CONTAINER TIGHTLY CLOSED
NOT FOR INTERNAL CONSUMPTION
CONSULT SAFETY DATA SHEET FOR MORE INFORMATION

VpCI-386 Acrylic Primer/Topcoat Winterized

Milky white liquid Appearance Colors Available Clear 8.5-9.7 (Neat) рΗ 8.5-9.5 lb/gal (1.02-1.14 kg/l) Density* Non-volatile Content* 33-37% Dry Film Thickness 1.5-3.0 mils (37.5-75 μ m) (per coat) $187-374 \text{ ft}^2/\text{gal} @ 1.5-3 \text{ mils} \\ (4.6-9.3 \text{ m}^2/\text{l} @ 37.5-75 \mu\text{m})$ Theoretical Spread Rate* 40 minutes @ 77°F (25°C) Dry to Touch Time (2 mils (50 μm) DFT)
7 days @ 77°F (25°C) 55% RH
3 Cycles @ 0°F (-18°C)
1.02 lb/gal (123 g/l)
2.21 lb/gal (265 g/l) Fully Cured Freeze/Thaw VOC (regulatory) VOC (actual) 700-3,000 cps (6 rpm/#2) Viscosity

-150°F to 350°F

(-78°C to 180°C)

Conventional Spray
Manufacturer Gun ModelTip/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

Temperature Resistance

(Fully Cured)

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 packagings are available from pump manufacturer and are highly recommended.

Note: Similar equipment may be suitable.

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.

Corlec Corporation warrants Corlec® products will be free from defects when shipped to customer. Corlec 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 Corlec 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 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 CONSPOLIED AND AGES.

Distributed by:



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

printed on recycled paper 100% post consumer
Revised: 3/11/14. ©Cortec Corporation 1999-2014. All rights reserved. Supersedes: 2/10/11.
Cortec® is a trademark of Cortec Corporation. © 2014, Cortec Corporation. All Rights Reserved.
Copying of these materials in any form without the written authorization of Cortec Corporation is strictly prohibited. ISO accreditation applies to Cortec's processes only.



Valdamark Limited
Unit 13,
30 The Downs
Altrincham, Cheshire, WP14 2PX,
United Kingdom.
valdamark@live.com
Tel: +44 (0) 161 706 0388



^{*}varies per color