



VpCI®-381

PRODUCT DESCRIPTION

VpCI-381 is a waterborne urethane-acrylic hybrid dispersion. It is a one component topcoat designed to be used over various primers, such as VpCI-374, 375, 395 & 396. VpCI-381 can be prepared in almost any color desired, including clear. The major advantage of this top coat is that offers excellent adhesion to moisture cured primers and other primers even after it has fully cured. VpCI-381 has excellent wetting, high gloss, and excellent exterior durability when used over a primer.

FEATURES

- Excellent exterior durability when used with a primer
- Water-based
- Excellent adhesion
- Excellent UV resistance
- Excellent gloss & clarity

APPLICATION

VpCI-381 may be applied by spray or brush. A film thickness of 1.5-3 dry mils (37.5-75 microns) is recommended. The coating dries to touch in 20-30 minutes; however it takes approximately one week before the coating is fully cured.

METALS PROTECTED

Carbon steel
Stainless steel
Galvanized **
Aluminum**
Wood

** A wash primer such as VpCI-373 green applied at 0.5-1.0 mils (12.5-25 microns) and a primer applied at 2 mils (50 microns) such as VpCI-395 before applying the VpCI-381 to these substrates.

TYPICAL USES

- General metal
- OEM
- Machinery & equipment

TYPICAL PROPERTIES - CLEAR

Appearance	Clear
NVC	40-45% by weight
Shelf life	1 year
Density	8.5-9.0
pH	7.5-8.5
DFT	1.5-3.0 mils (37.5-75 microns)
WFT	4.0-8.0 mils (100-200 microns)
Spread Rate	187-374 ft ² /gal@1.5-3.0 mils (4.6-9.3 M ² /L)
Viscosity	200-1000 cps
VOC (actual)	0.67(80 g/l)
VOC (regulatory)	1.22 (146.6 g/l)

TYPICAL PROPERTIES - WHITE

Appearance	White
NVC	45-50% by weight
Shelf life	1 year
Density	9.9-10.3
pH	8.0-9.0
DFT	1.5-3.0 mils (37.5-75 microns)
WFT	3.0-7.5 mils (75-187.5 microns)
Spread Rate	214-427 ft ² /gal@1.5-3.0 mils (5.3-10.6 M ² /L)
Viscosity	500-1000 cps
VOC (actual)	0.51 (61.4 g/l)
VOC (regulatory)	0.29 (35.1 g/l)

DRY TIME

Dry to touch	20-30 minutes
Tack Free	1-2 hours
Full Cure	7 days
Recoat	30 minutes -8 hours
QUV	1000+ hours 95% gloss retention
Pencil Hardness	2H
Adhesion	5B
Impact Resistance	160 in-lb (direct & reverse)

CHEMICAL RESISTANCE

MEK 200+ double rubs

IPA 50+ double rubs

ACCELERATED WEATHERING

Primer	Test	DFT	Hours
VpCI-374	Salt Spray ASTM B117	3.5-4.5	168
VpCI-374	Humidity ASTM D1748	3.5-4.5	500
VpCI-375	Salt Spray ASTM B117	3.5-4.5	168
VpCI-375	Humidity ASTM D1748	3.5-4.5	500
VpCI-395	Salt Spray ASTM B117	4.5-5.0	2600+
VpCI-396	Humidity ASTM D1748	3.5-4.5	1500+
VpCI-396	Salt Spray ASTM B117	3.5-4.5	1500+

STORAGE AND PACKAGING

VpCI-381 is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes, and bulk. Do not allow product to freeze.

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

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.



Distributed by:



www.esvasolutions.com