**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 topcoat 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

**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 ft²/gal@1.5-3.0 mils (4.6-9.3 M²/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 ft²/gal@1.5-3.0 mils (5.3-10.6 M²/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

<table>
<thead>
<tr>
<th>Primer</th>
<th>Test</th>
<th>DFT</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>VpCl-374</td>
<td>Salt Spray ASTM B117</td>
<td>3.5-4.5</td>
<td>168</td>
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<tr>
<td>VpCl-374</td>
<td>Humidity ASTM D1748</td>
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<td>500</td>
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<tr>
<td>VpCl-375</td>
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<td>Humidity ASTM D1748</td>
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<tr>
<td>VpCl-395</td>
<td>Salt Spray ASTM B117</td>
<td>4.5-5.0</td>
<td>2600+</td>
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<tr>
<td>VpCl-396</td>
<td>Humidity ASTM D1748</td>
<td>3.5-4.5</td>
<td>1500+</td>
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<tr>
<td>VpCl-396</td>
<td>Salt Spray ASTM B117</td>
<td>3.5-4.5</td>
<td>1500+</td>
</tr>
</tbody>
</table>

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

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