VpCI®-374

PRODUCT DESCRIPTION
VpCI-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.

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

VpCI-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
DeVibiss            JGN-501   QFA-519

Hose should be 3/8” (0.95 cm) I.D. minimum, but a ¼” (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	42-47%
pH	8.5-9.5 (Neat)
Density	9.1-10.2 lb/gal (1.09-1.22g/l)
Solids by Volume	33-37%
Recommended DFT	1.5-3.0 mils (37.5-75 microns)
Theoretical Spread Rate	561 ft²/gal @ 1 mil
52 m²/l @ 25 microns
Dry to Touch Time*	30 minutes @ 77°F (25°C)
Fully Cured	7 days @ 77°F (25°C)
55% RH
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 Regulatory	0.7-0.8lb/gal
(84-96g/L
VOC Actural	0.5-0.5lb1 gal
(60-72g/L
Viscosity	1200-2200 cps

*Can be reduced with an increase in air flow

**CORROSION RESISTANCE DATA**

(on carbon steel 1010 Q-panels)

<table>
<thead>
<tr>
<th>Dry Film Thickness</th>
<th>Mils (Microns)</th>
<th>Hours to Failure</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM B-117</td>
<td>2.0 (50)</td>
<td>1000+</td>
</tr>
<tr>
<td>(Salt spray)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTM D-1748</td>
<td>2.0 (50)</td>
<td>2000+</td>
</tr>
<tr>
<td>(Humidity)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PACKAGING AND STORAGE**

VpCI-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. VpCI-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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