VpCl™-389/VpCl™-389 D

PRODUCT DESCRIPTION
VpCl-389 is a water-based, temporary coating which provides excellent protection for outside applications and salt-spray resistance. VpCl-389 is an environmentally friendly replacement to oil-based products.

VpCl-389 is an excellent choice for long-term, indoor protection (up to 5 years*) and short to medium-term (6-24 months*), unsheltered, outdoor protection. This product cures to a soft film and eventually hardens. VpCl-389 can be easily removed with alkaline cleaners, such as Cortec® VpCl™-414.

*Depends on conditions and/or film thickness

FEATURES
• Multimetal protection
• Safe and easy to use
• Environmentally friendly
• Available in ready-to-use form - VpCl-389 D (1:1)
• Works in SO₂ and H₂S environments

METALS PROTECTED
• Aluminum
• Steels
• Cast iron
• Copper and alloys
• Tin

TYPICAL APPLICATIONS
• Equipment lay-up
• Parts processing protection
• Overseas shipping
• Maintenance repairs
• Parts storage

APPLICATION
Surface Preparation:
The surface must be equivalent to ARS. Low A-3 and higher or SSPCs Sp 1, 2, 3, 5, 6 and 10. The recommended film thickness range is 0.2-2.0 mils (5-50 microns).

Product Preparation:
Can be diluted with water for sprayability/application purposes; most working ranges are between 1:1 to 1:8 (VpCl-389:Water).

Product Application:
Mix VpCl-389 prior to use. VpCl-389 can be applied by spray, brush, roll or dip. Normal WFT of 5-mil (125 microns) yields 2-mil (50 microns) DFT.

Airless Spray:
Pressure 2000 psi (140 bar)
Filter 60 mesh
Tip 0.015” (0.038 cm)
Dilution 0-50%

Conventional:
Equipment Binks 18 gun or equivalent
Automatization pressure 40 psi (3 bar)
Fluid pressure 20 psi (1 bar)
Cap/Tip 66/S
Dilution 10-50%

PROPERTIES

<table>
<thead>
<tr>
<th></th>
<th>VpCl-389</th>
<th>VpCl-389 D</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Off-white to beige viscous liquid</td>
<td></td>
</tr>
<tr>
<td>Non-Volatile Content</td>
<td>35-43%</td>
<td>17-22%</td>
</tr>
<tr>
<td>Density</td>
<td>7.9-8.4 lb/gal (0.95-1.01 kg/l)</td>
<td>7.8-8.4 lb/gal (0.94-1.01 kg/l)</td>
</tr>
<tr>
<td>pH</td>
<td>9.5-10.5 (neat)</td>
<td>9-10 (neat)</td>
</tr>
<tr>
<td>VOC</td>
<td>1.42 lb/gal (170 g/l)</td>
<td>0.71 lb/gal (85 g/l)</td>
</tr>
<tr>
<td>Dry to Recoat Time</td>
<td>30-90 minutes</td>
<td></td>
</tr>
<tr>
<td>Dry to Tacky Time</td>
<td>10-60 minutes</td>
<td></td>
</tr>
<tr>
<td>Dry to Cure Time</td>
<td>1-3 hours</td>
<td></td>
</tr>
<tr>
<td>Film Type</td>
<td>Soft, tacky</td>
<td></td>
</tr>
<tr>
<td>Shelf Life</td>
<td>12 months at 75°F (24°C)</td>
<td></td>
</tr>
<tr>
<td>Theoretical Spread Rate</td>
<td>530-690 ft²/gal at 1-mil</td>
<td>(14-17 m²/l at 25 microns)</td>
</tr>
</tbody>
</table>
Brush: Nylon/polyester or nylon (dilution 0-50%)
Roller: Polyester knitted (dilution 0-50%)
Dip: See Cortec Application Notes “Dipping” (dilution 2:1 to 1:5)

LIMITATIONS
VpCI-389/VpCI-389 D should be completely dry before placing the part into storage.

Product Cleanup:
Use water to clean up tools and overspray.

PROTECTION PROPERTIES

<table>
<thead>
<tr>
<th>Test Method</th>
<th>DFT*</th>
<th>SA1010 Carbon Steel</th>
<th>Cast Iron</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM D 1748 Humidity</td>
<td>1-mil</td>
<td>1000+ hr.</td>
<td>-</td>
</tr>
<tr>
<td>ASTM G 85-94 Prohesion</td>
<td>1-mil</td>
<td>600 hr.</td>
<td>-</td>
</tr>
<tr>
<td>ASTM B 117 Salt Spray</td>
<td>2-mils</td>
<td>600 hr.</td>
<td>40 hr. @ 0.5-mil (12 microns)</td>
</tr>
<tr>
<td>DIN 50017 H2O Atmospheres Condensation</td>
<td>0.5-mil</td>
<td>96 hr.</td>
<td>-5% corrosion</td>
</tr>
</tbody>
</table>

*Dry Film Thickness

PACKAGING AND STORAGE
VpCI-389 and VpCI-389 D are available in 5 gallon (19 liter) pails, 55 gallon (208 liter) metal drums, liquid totes and bulk. Do not allow product to freeze.

VpCI-389 D is also available in EcoAir compressed air spray cans (12 oz / 340 g).

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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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

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