VpCI®-369

PRODUCT DESCRIPTION

VpCI®-369 is Cortec’s best inhibitor for use as an oil additive and/or temporary coating. The protective film is self-healing and moisture-displacing, providing superior protection against aggressive environments. VpCI®-369 is also excellent when used as an oil additive for mothballing, shipping, or storage of parts and equipment. In small percentages, VpCI®-369 has a minimal effect on viscosities.

Cortec® VpCI®-369 is available prediluted with mineral spirits at the ratio 1:1 as VpCI®-369 H, which is recommended for spray can applications.

VpCI®-369 also comes with an UV tracer, as VpCI®-369 UV. VpCI®-369 UV shows as a bright blue under black UV light, making quality assurance on coverage of the rust preventative particularly convenient when it is used as temporary coating.

FEATURES

• Self-healing
• Excellent lubricity
• Extends tool life for metalworking operations
• Excellent outdoor protection
• Excellent oil additive
• Dilutable with oil
• Meets MIL-PRF-16173E (Grade 2) Corrosion Testing Requirements
• NSN 8030-00-244-1295
• NSN 8030-00-244-1297
• NSN 8030-00-244-1298
• NSN 8030-01-149-1731

TYPICAL APPLICATION

• Wire rope
• Electrical connections/wiring
• Sheltered coating
• Gear protectant/lubricant
• Long-term (5+ years) equipment lay-up
• Stamping oil additive
• Drawing oil additive
• Cylinders
• Working/moving parts

PROTECTION PROPERTIES

<table>
<thead>
<tr>
<th></th>
<th>ASTM</th>
<th>DFT</th>
<th>Carbon Steel (1010)</th>
<th>Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humidity</td>
<td>D-1748</td>
<td>2-3 mil (50-75 microns)</td>
<td>3000+ hr</td>
<td>3000+ hr</td>
</tr>
<tr>
<td>Salt Spray</td>
<td>B-117</td>
<td>2-3 mil (50-75 microns)</td>
<td>900+ hr</td>
<td>3500+ hr</td>
</tr>
</tbody>
</table>

METALS PROTECTED

• Silver
• Cast Iron
• Stainless Steel
• Copper
• Magnesium
• Aluminum
• Carbon Steel

MINIMUM REQUIREMENTS FOR SURFACE PREPARATION

<table>
<thead>
<tr>
<th>NACE</th>
<th>SSPC</th>
<th>ARS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>7-63</td>
<td>As low as B-3</td>
</tr>
</tbody>
</table>

Methods for Monitoring:
Wet Film Thickness Gauge
TYPICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Light beige/tan viscous liquid</td>
</tr>
<tr>
<td>Film Type</td>
<td>Oily</td>
</tr>
<tr>
<td>Flash Point</td>
<td>325.4°F (163°C)</td>
</tr>
<tr>
<td>Viscosity</td>
<td>7400cp (40°C)</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>24 months @ 75°F (24°C)</td>
</tr>
<tr>
<td>Non-volatile Content</td>
<td>95-99%</td>
</tr>
<tr>
<td>Theoretical Spread Rate</td>
<td>753-1506 ft²/gal @ 1-2 mils</td>
</tr>
<tr>
<td>(18.8-37.6 m²/l @ 25-50 microns)</td>
<td></td>
</tr>
<tr>
<td>Weight per Gallon</td>
<td>7.7-8.4 lb/gal (0.92-1.01 kg/l)</td>
</tr>
<tr>
<td>Temperature Resistance</td>
<td>-108°F to 300°F</td>
</tr>
<tr>
<td>(Fully Cured)</td>
<td>(-78°C to 150°C)</td>
</tr>
</tbody>
</table>

STANDARD TEST METHODS

<table>
<thead>
<tr>
<th>Method</th>
<th>Test Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM D-1735</td>
<td>Water Fog Cabinet</td>
</tr>
<tr>
<td>ASTM D-1748</td>
<td>Humidity Cabinet</td>
</tr>
<tr>
<td>ASTM B-117</td>
<td>Salt Fog Cabinet</td>
</tr>
<tr>
<td>ASTM D3690</td>
<td>VOC</td>
</tr>
<tr>
<td>ASTM D522</td>
<td>Flexibility</td>
</tr>
<tr>
<td>MIL-PRF-16173E</td>
<td>Grade 2</td>
</tr>
<tr>
<td>NACE</td>
<td>Minimum Surface Preparation Guideline</td>
</tr>
<tr>
<td>NACE RP0487-2000</td>
<td>Selection of Rust Preventives</td>
</tr>
<tr>
<td>SSPC</td>
<td>Minimum Surface Preparation Guideline</td>
</tr>
</tbody>
</table>

APPLICATION

Product Preparation:
Product should be mixed thoroughly and uniform prior to use.

Product Application:
Product can be applied by spray, brush, roll, or dip. Normal DFT is 1-3 mils (25-75 microns). Apply VpCI®-369 in a well-ventilated area.

Air-Assisted Spray Equipment:
- Manufacturer: Graco
- Gun Model: AA Plus

Airless Spray Equipment:
- Manufacturer: Graco
- Gun Model: Model 510

Fluid hose should be 3/8” I.D. with a length of 10’. A 1/4” whip hose may be used for ease of application. Best results will be achieved by using a 0.011”-0.015” tip at 1700 psi (117 bar). The minimum fluid atomization pressure required is 1500 psi (103 bar), which gives 2-4 mils (50-100 microns) WFT/pass.

Product Cleanup:
For cleanup of tools and overspray, use alkaline cleaners such as Cortec® VpCI®-414 or mineral spirits

LIMITATIONS

VpCI®-369 can be removed if applied in splash zones, heavy rains, or similar conditions. Parts protected with VpCI®-369 should be sheltered for best results.

PACKAGING

VpCI®-369 and VpCI®-369 H are available in 5 gallon (19 liter) plastic pails, 55 gallon (208 liter) metal drums, and VpCI®-369 is also available in diluted forms.

Available as CorShield® VpCI®-369 in 11 oz. (312 g) aerosol cans.

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:

Cortec® Corporation
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