**PRODUCT DESCRIPTION**

VpCI-386 Aluminum is a unique, water-based primer/topcoat that successfully provides protection in harsh, outdoor, unsheltered applications. The complex mixture of non-toxic, organic inhibitors and an aluminum pigment offers protection that can compete with most paints and zinc-rich primers.

VpCI-386 Aluminum is superior to many coatings with only inorganic pigments because the resistance has been improved by using a highly corrosion resistant aluminum platelet type pigment with organic corrosion inhibitors. The special combination of additives provides a composite polymer barrier that significantly retards the reaction of metal ionization and repels water. A protective film is adsorbed onto metal surfaces. It protects against corrosive electrolytes and aggressive environments, thus preventing corrosion.

VpCI-386 Aluminum provides a fast-drying thixotropic coating that is resistant to sagging or running, forming a tough, non-flammable, protective barrier. This dry-to-touch film offers extended protection for sheltered or unsheltered, outdoor or indoor conditions. Thermally stable from -40ºF to +400ºF (-40º to 204ºC), the coating is ultraviolet resistant. It gives optimal outdoor performance without cracking or chipping upon prolonged exposure to sunlight.

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**FEATURES**

- Fast-drying
- UV resistant
- Forms non-flammable, protective barrier
- High anti-abrasion performance
- Optimal outdoor performance

**MIXING INSTRUCTIONS**

This coating is supplied in a single component. Power agitate at low speed to a uniform consistency using a “squirrel cage” type mixer, hand-held drill mixer, or other equivalent method.

**APPLICATION**

VpCI-386 Aluminum can be used as a topcoat/primer. When solvent-based topcoats are applied over VpCI-386 Aluminum, compatibility must be checked. VpCI-386 Aluminum can also be used as a topcoat with Cortec® VpCI-374 or VpCI-395 as a primer.

*Note:* Make sure dew point is more than 5ºF (2ºC) less than air temperature for application and the temperature is at least 55ºF (130ºC).

VpCI-386 Aluminum can be applied via spray, roller and brush.

**METALS PROTECTED**

- Carbon steel
- Cast iron
- Aluminum
- Stainless steel
- Galvanized steel
- Copper

VpCI-386 Aluminum has exceptionally good anti-abrasion qualities, making it easily adaptable to steel grating walkways, steel decks and numerous other applications where abrasion is to be expected.
TEST DATA

<table>
<thead>
<tr>
<th>CS 1010 Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salt Spray</td>
</tr>
<tr>
<td>Humidity</td>
</tr>
</tbody>
</table>

*1.5 to 2-mils (37.5 to 50 microns)

**Conventional Spray**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Gun Model</th>
<th>Tip/Aircap Combination</th>
</tr>
</thead>
<tbody>
<tr>
<td>DeVilbiss</td>
<td>MBC or JGA</td>
<td>704E</td>
</tr>
<tr>
<td>Binks</td>
<td>#18 or #62</td>
<td>66PE</td>
</tr>
</tbody>
</table>

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 spray gun.

**Airless**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Gun Model</th>
<th>Tip/Aircap Combination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graco</td>
<td>205-591</td>
<td>Bulldog</td>
</tr>
<tr>
<td>Binks</td>
<td>Model 500</td>
<td>Mercury 5C</td>
</tr>
<tr>
<td>DeVilbiss</td>
<td>JGN-501</td>
<td>QFA-519</td>
</tr>
</tbody>
</table>

Hose should be 3/8" (0.95 cm) I.D. minimum, but a 1/4" (0.64 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" (0.3-0.4 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.

PACKAGING AND STORAGE

VpCI-386 Aluminum is available in 5 gallon (19 liter), 55 gallon (208 liter), liquid totes and bulk. Keep product from freezing. Avoid temperatures higher than 75°F (24°C) while in storage.

**TYPICAL PROPERTIES**

- **Appearance**: Medium Grey Aluminum
- **pH**: 9-9.6 (Neat)
- **Density**: 8.4-8.8 lb/gal (1.01-1.05 kg/l)
- **Non-volatile Content**: 35-40%
- **Dry Film Thickness**: 1.0-2.5 mils (per coat)
- **Dry to Touch Time**: 30 minutes @ 75°F (24°C)
- **Temperature Stability (Application)**: 45°-90°F (7°-32°C)
- **VOC (ASTM D-3960)**: 1.27 lb/gal (152 g/l)
- **Viscosity**: 700-3,000 cps (6 rpm/#2)
- **Shelf life**: 12 months

**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**

**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.

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