VpCI®-375 HT Clear

PRODUCT DESCRIPTION
VpCI-375 HT Clear is a unique, high heat resistant water-based primer/topcoat that successfully provides protection in harsh outdoor unsheltered applications. The complex mixture of non-toxic, organic inhibitors, offers protection that can compete with most paints and zinc-rich primers.

VpCI-375 HT Clear is superior to many coatings with only inorganic pigments. 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-375 HT Clear provides a fast-drying thixotropic coating that is resistant to sagging or running. This dry-to-touch film offers extended protection for sheltered, unsheltered, outdoor, or indoor conditions. Thermally stable when dried from -150°F to 700°F (-78° to 371°C). The coating is ultraviolet resistant. It gives optimal outdoor performance without cracking or chipping upon prolonged exposure to sunlight.

FEATURES
- Heat resistant up to 700°F
- Fast-drying
- UV resistant
- 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-375 HT Clear can be used as a topcoat/primer. When solvent-based topcoats are applied over VpCI-375 HT Clear, compatibility must be checked.

Note: Make sure dew point is more than 5°F (2°C) less than air temperature for application and the temperature is at least 55°F (13°C).

VpCI-375 HT Clear can be applied via spray, roller, or brush.

METALS PROTECTED
- Carbon steel
- Cast iron
- Aluminum**
- Stainless steel
- Galvanized steel**
- Copper

** A wash primer such as VpCI-373 green applied at 0.5-1.0 dry mils (12.5-25 microns) may be necessary before applying the VpCI-375 HT Clear to these substrates.

TEST DATA

<table>
<thead>
<tr>
<th>Test Method</th>
<th>CS 1010</th>
<th>Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salt Spray (ASTM B117)</td>
<td>500+ hr.*</td>
<td>1000+ hr.</td>
</tr>
<tr>
<td>Humidity (ASTM D1748)</td>
<td>1000+ hr.</td>
<td>1000+ hr.</td>
</tr>
</tbody>
</table>

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

Passes:
ASTM D-2485-91: Standard Test Methods for evaluating coatings for High Temperature Service (Method A) (After heating)
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 same elevation as spray gun.

Airless

Manufacturer Gun Model Tip/Aircap Combination
Graco  205-591  Bulldog
Binks  Model 500  Mercury 5C
DeVilbiss  JGN-501  QFA-519

Hose should be 3/8” (0.95 cm) I.D. minimum, but a ¼” (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-375 HT Clear 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Matte clear</td>
</tr>
<tr>
<td>pH</td>
<td>8.5-9.5 (Neat)</td>
</tr>
<tr>
<td>Density</td>
<td>8.3-9.5 lb/gal (0.99-1.14 kg/l)</td>
</tr>
<tr>
<td>Non-volatile Content</td>
<td>35-40%</td>
</tr>
<tr>
<td>Fully Cured</td>
<td>7 days at 77°F (25°C) 55% RH</td>
</tr>
<tr>
<td>Dry Film Thickness (per coat)</td>
<td>1.5-2.5 mils (37.5-62.5 microns)</td>
</tr>
<tr>
<td>Theoretical Spread Rate</td>
<td>561-641 ft²/gal (1.0 mils) @15.2 m²/l</td>
</tr>
<tr>
<td>(per 25 microns)</td>
<td></td>
</tr>
<tr>
<td>Dry to Touch Time</td>
<td>30 minutes @ 77°F (25°C) 0.8-0.9 lb/gal (95.8-107.8 g/L)</td>
</tr>
<tr>
<td>Viscosity</td>
<td>700-3,000 cps (6 rpm/#3)</td>
</tr>
<tr>
<td>Shelf life</td>
<td>12 months</td>
</tr>
<tr>
<td>Temperature Resistance</td>
<td>-150°F to 700°F</td>
</tr>
<tr>
<td>(Fully Cured)</td>
<td>(-78°C to 370°C)</td>
</tr>
</tbody>
</table>

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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