Aremco’s Corr-Paint™ CP40xx series coatings are formulated using an advanced water-based silicone emulsion combined with inorganic fillers and pigments to offer VOC compliant coatings with continuous temperature resistance to 1100 °F (593 °C) and intermittent resistance to 1200 °F (649 °C).

These coatings are single-part, heat curable systems that adhere to a wide range of materials including metals, ceramics, glass, quartz, and refractories, and offer outstanding resistance to outdoor weathering, UV light, salt spray corrosion, oxidation, some chemicals, and thermal shock.

**PRODUCT HIGHLIGHTS**
- Single-Part, No Mixing
- Low Viscosity
- Maximum Use Temperature, 1100 °F (593 °C)
- Intermittent Use Temperature, 1200 °F (649 °C)
- Bonds to Ceramics, Glass, Quartz, Metals
- Excellent Resistance to Moisture & Salt Spray
- Resists Thermal Shock
- Resists Ultraviolet Light
- Good Chemical Resistance
- Water-Based
- Low Volatile Organic Compounds (VOCs)

**AVAILABLE COLORS**
- CP4000 Black
- CP4010 Aluminum
- CP4020 Gray
- CP4040 White
- CP4050 Green
- CP4060 Red
- CP4070 Blue
- CP4080 Yellow
- CP4090 Brown
- CP4095 Orange

*All colors are matte finish. The colors represented here are approximate and the actual product color may vary.*

**TYPICAL APPLICATIONS**
- Bag Houses
- Boiler Casings
- Ceramic Cloth
- Ceramic Fiberboard
- Chimneys
- Cyclones
- Ducting
- Heaters
- Heat Exchangers
- Exhaust Systems
- Engines
- Furnaces
- Ovens
- Kilns
- Lighting Fixtures
- Process Vessels
- Reformers
- Scrubbers
- Stacks
- Turbochargers
<table>
<thead>
<tr>
<th>Type</th>
<th>CP4000</th>
<th>CP4010</th>
<th>CP4020</th>
<th>CP4040</th>
<th>CP4050</th>
<th>CP4060</th>
<th>CP4070</th>
<th>CP4080</th>
<th>CP4090</th>
<th>CP4095</th>
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<tr>
<td><strong>Color (cured)</strong></td>
<td>Flat Black</td>
<td>Aluminum</td>
<td>Gray</td>
<td>White</td>
<td>Green</td>
<td>Red</td>
<td>Blue</td>
<td>Yellow</td>
<td>Brown</td>
<td>Orange</td>
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<tr>
<td><strong>Temperature Continuous, °F (°C)</strong></td>
<td>1100(593)</td>
<td>1100(593)</td>
<td>1100(593)</td>
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<td>1100(593)</td>
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<tr>
<td><strong>Viscosity, cP</strong>¹</td>
<td>400–800</td>
<td>200–600</td>
<td>400–800</td>
<td>400–900</td>
<td>500–750</td>
<td>750–950</td>
<td>300–600</td>
<td>500–700</td>
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<td><strong>Specific Gravity, g/cc</strong></td>
<td>1.32</td>
<td>1.05</td>
<td>1.28</td>
<td>1.27</td>
<td>1.31</td>
<td>1.31</td>
<td>1.25</td>
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<td><strong>Solids by Weight, %</strong></td>
<td>51.5</td>
<td>44.2</td>
<td>44.2</td>
<td>44.2</td>
<td>48.5</td>
<td>46.5</td>
<td>44.8</td>
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<td><strong>Solids by Volume, %</strong></td>
<td>38.1</td>
<td>41.6</td>
<td>38.2</td>
<td>46.1</td>
<td>39.5</td>
<td>38.3</td>
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<td><strong>WFT, mls (microns)³</strong></td>
<td>2.6 (66.5)</td>
<td>2.4 (61.0)</td>
<td>2.6 (66.4)</td>
<td>2.2 (55.1)</td>
<td>2.5 (64.3)</td>
<td>2.6 (66.3)</td>
<td>2.6 (66.3)</td>
<td>2.6 (66.8)</td>
<td>2.7 (67.2)</td>
<td>2.6 (64.9)</td>
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<td><strong>DFT, mls (microns)³</strong></td>
<td>1.0 (25.4)</td>
<td>1.0 (25.4)</td>
<td>1.0 (25.4)</td>
<td>1.0 (25.4)</td>
<td>1.0 (25.4)</td>
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<tr>
<td><strong>Theoretical Dry Film Coverage</strong> @ 1 mil, ft²/gal (m²/liter)</td>
<td>611 (14.9)</td>
<td>668 (16.4)</td>
<td>613 (15.1)</td>
<td>740 (18.2)</td>
<td>634 (15.6)</td>
<td>614 (15.1)</td>
<td>617 (15.2)</td>
<td>610 (15.0)</td>
<td>606 (14.9)</td>
<td>628 (15.4)</td>
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<td><strong>Primer⁵</strong></td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
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<td>NR</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
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<tr>
<td><strong>Touch, hrs</strong></td>
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<td>1–2</td>
<td>1–2</td>
<td>1–2</td>
<td>1–2</td>
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<td><strong>Handling, hrs</strong></td>
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<tr>
<td><strong>Recoat, (min/max), hrs</strong></td>
<td>1 / 24</td>
<td>1 / 24</td>
<td>1 / 24</td>
<td>1 / 24</td>
<td>1 / 24</td>
<td>1 / 24</td>
<td>1 / 24</td>
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<tr>
<td><strong>Min Air Set, hrs⁶</strong></td>
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<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td><strong>Cure, °/hrs/°⁷</strong></td>
<td>450 / 1 or 480 / 75</td>
<td>450 / 1 or 480 / 75</td>
<td>450 / 1 or 480 / 75</td>
<td>450 / 1 or 480 / 75</td>
<td>450 / 1 or 480 / 75</td>
<td>450 / 1 or 480 / 75</td>
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<td><strong>Application Temperature, °F</strong></td>
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<td>50–120</td>
<td>50–120</td>
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<tr>
<td><strong>Thinner</strong></td>
<td>Distilled Water</td>
<td>Distilled Water</td>
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<td><strong>Pot Life, hrs at room temp.</strong></td>
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<td>NA</td>
<td>NA</td>
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<td><strong>Flash Point, °F (°C)</strong></td>
<td>&gt; 212 (100)</td>
<td>&gt; 212 (100)</td>
<td>&gt; 212 (100)</td>
<td>&gt; 212 (100)</td>
<td>&gt; 212 (100)</td>
<td>&gt; 212 (100)</td>
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<td><strong>VOC's, lbs/gal</strong></td>
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<td>0.86</td>
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<td><strong>Shelf Life #RT, months</strong></td>
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<td>6</td>
<td>6</td>
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<td>6</td>
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<td><strong>Storage Temperature, °F</strong></td>
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<td>55–85</td>
<td>55–85</td>
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<td>55–85</td>
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<td>55–85</td>
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<td>55–85</td>
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</tbody>
</table>

**Surface Preparation Notes**
All surfaces should be free of oil, grease, dirt, corrosives, oxides, paints or other foreign matter. No further preparation is required when coating ceramics, refractories or graphites. Smooth metal surfaces should be abrasive blasted to an SSPC-SP6 near white blast. Remove abrasive residue using air pressure, do not clean with organic solvents.

Aremco’s Corr-Prep™ CPR2000 is recommended as an alternative when sandblasting is not possible. This is a specially formulated, water-based, zinc phosphate metal etching solution that is non-toxic, non-flammable, non-caustic, and non-corrosive. It etches metal to provide surface profile for superior coating adhesion to aluminum, galvanized metal, steel, and stainless steel. It also helps to improve long-term corrosion protection. Application is simple — just brush or spray liquid on the substrate, allow to sit for 20–30 minutes, then rinse off and dry substrate thoroughly prior to coating.

**Application Notes**
Mix thoroughly before use to redisperse fillers and pigments. Apply using a brush, roller or spray gun. When spraying, a maximum dry film thickness of 2 mils (0.002”) can be achieved by applying two coats. Recommended fluid nozzle diameter is 40–50 mils, atomizing pressure of 40–50 psi, and distance from work of 8–10”.

Adequate ventilation is required when applying and curing the coating. Read Safety Data Sheet for further safety instructions.

**Abbreviations**
- NA: Not Applicable
- NR: Not Required or Recommended
- DFT: Dry Film Thickness
- RT: Room Temperature

Reference Notes
¹ Viscosity is measured using a Brookfield LV Viscometer, LV3 Spindle @ 30 RPM.
² Estimated Wet Film Thickness (WFT).
³ Recommended Dry Film Thickness (DFT).
⁴ Actual coverage will vary depending on material losses during mixing and application.
⁵ Primer is only recommended for exterior applications in which salt fog or moisture are present and the operating temperature is less than 750 °F.
⁶ Where a value is provided for “Min Air Set”, it is recommended to set the coating at room temperature for, at minimum, the specified time prior to curing.
⁷ Adequate ventilation is required when curing these products as some outgassing will occur.
⁸ Curing is recommended but not absolutely required if the system is raised slowly to a minimum of 450 °F within 24–48 hours of application and not exposed to high moisture or rain during this initial dwell period.

Distilled Water
Refer to Price List for complete order information.
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