Starting Formulation

SF 2803

Low Temperature Cure White Powder Coating

EPON™ Resin 2024 / EPIKURE™ Curing Agent P-101

Suggested Uses

- Excellent general purpose powder coating

Features

- Good film appearance
- Low temperature cure
- Excellent storage stability

Formula

<table>
<thead>
<tr>
<th>Material</th>
<th>Supplier</th>
<th>Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EPON Resin 2024</td>
<td>Hexion</td>
<td>652.0</td>
</tr>
<tr>
<td>EPIKURE Curing Agent P-101</td>
<td>Hexion</td>
<td>19.5</td>
</tr>
<tr>
<td>Ti-Pure R-900</td>
<td>E.I. DuPont de Nemours &amp; Company, Inc.</td>
<td>322.0</td>
</tr>
<tr>
<td>Cab-O-Sil®</td>
<td>Cabot Corporation.</td>
<td>6.5</td>
</tr>
<tr>
<td>Total Formulation</td>
<td></td>
<td>1,000.0</td>
</tr>
</tbody>
</table>

Mixing Instructions

Powder coatings are generally manufactured by the melt mix technique. All the components are dry blended, usually in a high intensity mixer. This homogeneous blend is processed through an appropriate single or twin-screw extruder and cooled to a friable solid. The dispersed extrudate is then pulverized to yield a suitable particle size distribution and sieved to eliminate coarse particles which could detract from the appearance of the coating.

Typical Handling

Powder coatings can be applied by electrostatic spray, fluidized bed, electrostatic fluidized bed, and flocking gun methods. The electrostatic techniques are recommended where the optimum in film appearance is desired at thin film thickness. Further improvements in appearance can be realized if the substrate is heated prior to application of powder. Heating the substrate allows the coating to achieve minimal melt viscosity before curing begins.

This coating will cure in 30 minutes at 250 °F, or 5 minutes at 300 °F

Typical Formulation Table 1 / Formulation Properties

<table>
<thead>
<tr>
<th>Properties</th>
<th>Units</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bake schedule</td>
<td>min./°F</td>
<td>30/250</td>
</tr>
<tr>
<td>Reverse impact resistance, Gardner</td>
<td>in/lb</td>
<td>Pass 40</td>
</tr>
</tbody>
</table>

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Flexibility, Zuhr Conical Mandrel in Pass 1/8
Pencil hardness, ASTM D3363 Pass 5H
Cross hatch adhesion, 1/8-inch squares Pass
Solvent resistance
MEK, double rubs Pass 100 +
Gloss, 60°% 100

Storage Recommendations regarding storage conditions can be obtained by visiting our web site at www.hexion.com

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