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>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><strong>Total Formulation</strong></td>
<td><strong>Total Formulation</strong></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

General Information
These are starting formulations and are not proven in the user’s particular application but are simply meant to demonstrate the efficacy of the products and to assist in the development of the user’s own formulation. It is the user’s responsibility to fully-test and qualify the formulation, along with the ingredients, methods, applications or equipment identified herein (“Information”), by the user’s knowledgeable formulator or scientist, and to determine the appropriate use conditions and legal restrictions, prior to use of any Information.

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