Technical Data Sheet

EPIKURE™ Curing Agent 6870-W-53

Product Description

EPIKURE Curing Agent 6870-W-53 is a 53% solids, non-ionic aqueous dispersion of a modified polyamine adduct curing agent. This high molecular weight curing agent contains no solvents and is designed to provide the high performance of traditional epoxy coatings in low VOC\(^1\), non-HAPS\(^2\) waterborne epoxy coatings. Although EPIKURE Curing Agent 6870-W-53 exhibits good compatibility with other epoxy resin dispersions, it is designed for use with EPI-REZ™ Resin 6520-WH-53.

\(^1\) VOC is the acronym for volatile organic compound, as defined by the U.S. 40CFR51.100 (s).

\(^2\) HAP is the acronym for hazardous air pollutant, as defined by the U.S. Clean Air Act Amendments of 1990.

Application Areas/Suggested Uses

- Adhesives
- Laminating binders
- Electrical encapsulants
- Grouts
- Floor topping and repair compositions

Benefits

- Low odor
- Solvent free product as supplied
- Mechanical stability
  - When mixed with EPI-REZ RESIN 6520-WH-53
- Very fast dry and recoat times
- No induction time
- Visible end of pot life
- Very good gloss and aesthetics
- Very good corrosion and water resistance
- An improved balance of physical properties over a range of stoichiometry

Sales Specifications

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Unit</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amine Value</td>
<td>235 - 265</td>
<td>mg/g</td>
<td>ASTM D2896</td>
</tr>
<tr>
<td>Hegman Grind Fineness</td>
<td>7</td>
<td>Hegman</td>
<td>ASTM D-1210</td>
</tr>
<tr>
<td>Solids</td>
<td>51 - 54</td>
<td>% m/m</td>
<td>ASTM D1259</td>
</tr>
<tr>
<td>Viscosity at 25°C</td>
<td>1000 - 11000</td>
<td>cP</td>
<td>ASTM D2196</td>
</tr>
</tbody>
</table>

Typical Properties

EPIKURE Curing Agent 6870-W-53


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<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amine Eq. W Based on Solids</td>
<td>220 - 240</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Milky white</td>
<td></td>
</tr>
<tr>
<td>Density Solids Basis Theoretical</td>
<td>9.9</td>
<td>lbs/gal</td>
</tr>
<tr>
<td>Density Solution Basis</td>
<td>9.1</td>
<td>lbs/gal</td>
</tr>
</tbody>
</table>

**Performance Properties**

![Temperature-Viscosity Profile](image)

**General Information**

The preferred resin choice for optimum performance over a wide range of stoichiometries is EPI-REZ Resin 6520-WH-63. This versatile binder system (6520-WH-63/6870-W-53) allows clear coats, enamels and primers to be formulated with volumetric mix ratios from 4:1 to 1:1. EPIKURE Curing Agent 6870-W-53 is also compatible with many other waterborne epoxy resin dispersions and additives.

**Safety, Storage & Handling**

Please refer to the MSDS for the most current Safety and Handling information.

Please refer to the Hexion web site for Shelf Life and recommended Storage information.

Exposure to these materials should be minimized and avoided, if feasible, through the observance of proper precautions, use of appropriate engineering controls and proper personal protective clothing and equipment, and adherence to proper handling procedures. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheet (MSDS) for these and all other products being used are understood by all persons who will work with them. Questions and requests for information on Hexion Inc. ("Hexion") products should be directed to your Hexion sales representative, or the nearest Hexion sales office. Information and MSDSs on non-Hexion products should be obtained from the respective manufacturer.

**Packaging**

Available in bulk and drum quantities.

**Contact Information**

For product prices, availability, or order placement, please contact customer service:

[www.hexion.com/Contacts/](http://www.hexion.com/Contacts/)

For literature and technical assistance, visit our website at [www.hexion.com](http://www.hexion.com)

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