TECHNICAL BULLETIN

EPOXY CURING AGENT 100KF
(ECA 100KF)

Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular Weight (average)</td>
<td>169-171</td>
<td></td>
</tr>
<tr>
<td>Specific gravity @ 20°C, g/cc</td>
<td>1.16 – 1.19</td>
<td>D-102 (ASTM D 4052)</td>
</tr>
<tr>
<td>Appearance</td>
<td>Light yellow to light green clear liquid</td>
<td>D-104 (Visual)</td>
</tr>
<tr>
<td>Viscosity at 25°C, cPs</td>
<td>80 - 100</td>
<td>D-150F</td>
</tr>
<tr>
<td>Color, Gardner</td>
<td>0.2-0.7</td>
<td>D-150G</td>
</tr>
</tbody>
</table>

Applications

ECA 100KF is a low viscosity, light colored, non-crystallizing liquid anhydride epoxy curing agent based on methylhexahydrophthalic anhydride (MHHPA). For convenience, it is pre-catalyzed with an accelerator that contributes to good glass transition temperature (Tg), long pot life, and light color in cured polymers. This product is designed for use in converting epoxy resins to highly cross-linked polymers with excellent physical and electrical properties. ECA 100KF has the following characteristics:

- Non-crystallizing
- Good outdoor durability (UV resistance)
- Good alkaline resistance in pipe applications
- Low color of cured polymer
- Convenience of one component
- Low viscosity mixes with various epoxies for easy handling
- Long working time and pot life in epoxy systems

ECA 100KF imparts ease of handling due to its low viscosity, low volatility and low freezing point. If crystallization does occur during shipping or
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ECA 100KF will react with water to form diacids. This is normally undesirable, so ECA 100KF should be stored in such a way that it is carefully protected from moisture contamination.

For more details on the design of bulk storage for ECA 100KF, consult the Dixie Chemical Company brochure “Epoxy Curing Agent Storage Requirements.”

Health Hazards

Read and understand the relevant Safety Data Sheets (SDS) for all products before use. These anhydrides are primary skin and eye irritants. Avoid contact with skin, eyes, and clothing. Use only with adequate ventilation. In case of contact, follow the procedures outlined in the SDS. Generally, these procedures include immediately flushing the affected skin or eyes with copious amounts of water for at least 15 minutes. In the case of eye contact, get medical attention. Wash contaminated clothing before reuse.

Follow the recommendations in the SDS for personal protective equipment when handling these materials. At a minimum, these procedures typically include protective chemical goggles, impenetrable gloves, and measures to avoid breathing chemical vapors.

Availability

ECA 100KF is available from Dixie Chemical in Pasadena, Texas. Contact your Dixie representative for details.