ELANTAS PDG, Inc.

ELANTAS Electrical Insulation

Around the world, ELANTAS Electrical Insulation companies are respected as market leaders in the development and manufacturing of impregnating resins (varnishes), wire enamel, potting compounds and casting resins for a number of electrical, industrial, aerospace and civil applications. No matter what your challenge, be assured that ELANTAS Electrical Insulation products will meet your most demanding needs.

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Many ELANTAS PDG, Inc. products are recognized as components of electrical insulation systems in accordance with UL 1446. ELANTAS PDG, Inc. is registered to ISO 9001 and ISO/TS 16949.

ELANTAS PDG, Inc.

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A member of ALTANA

ELANTAS Electrical Insulation

Battery Sealants

ELAN-Tron® Resin Solutions
Battery Sealants

Batteries are a common power source for many household and industrial applications. Independent of end use application, all batteries need adequate sealing to prevent leaks ensuring safe and efficient use and long life. To accomplish this, the proper selection of sealing material and adhesion of all components is key.

Product Summary

ELAN-Tron® resins are room-temperature curing epoxy battery sealant systems that provide excellent adhesion to a variety of substrates used in battery construction, including polypropylene, polycarbonate, ABS, SAN, and hard rubber.

Features

- Moisture and chemical resistant, including sulfuric acid resistance at 150°F
- Can be tailored for specific applications in battery construction:
  - Rigid adhesion for secure ‘plate-lock’ of elements to bottom of battery case
  - Adhesion of lid to case based on specific substrates
  - Balance of flexibility and hardness for sealing terminal posts

Product Uses

- “Plate-lock” of lead plates
- Adhesion of battery case to lid
- Sealing of terminal posts

ELANTAS PDG, Inc. is a team of professionals with access to the latest international research developments and technical advancements in the production of high quality electrical insulation products. You can count on EPDG’s liquid insulation products to produce a sealed system with long term reliability.

Application Methods

Manual • Meter-Mix

Product Characteristics at a Glance

<table>
<thead>
<tr>
<th>Product</th>
<th>Unique Characteristics</th>
<th>Average Viscosity (cP) at 25°C/77°F</th>
<th>Mixed Viscosity (cP) at 25°C/77°F</th>
<th>Mix Ratio</th>
<th>Cure Schedule for Optimum Properties</th>
<th>Working Life at 25°C/77°F</th>
<th>Shore D Hardness</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELAN-Tron A-2003 ELAN-Tron B-2006*</td>
<td>Unfilled, two-component epoxy resin system. Adhesive for bonding and sealing polypropylene and hard rubber battery cases. Moisture and chemical resistance including 1.265 S.G. sulfuric acid up to 150°F.</td>
<td>12,000</td>
<td>7,600</td>
<td>0,000 - 11,000</td>
<td>100:82</td>
<td>12-24 hours at room temperature for partial cure. Full cure takes 5-7 days. Alternatively, oven cure for 30 minutes at 77°C/170°F.</td>
<td>5 minutes</td>
</tr>
<tr>
<td>ELAN-Tron A-2040 ELAN-Tron B-2053</td>
<td>Filled, two-component epoxy resin system. Semi-thixotropic nature provides self-leveling without leakage. Adhesive for bonding and sealing polystyrene and ABS battery cases, as well as polycarbonate, polypropylene and hard rubber. White/Black system.</td>
<td>15,000</td>
<td>12,000</td>
<td>12,000 - 15,000</td>
<td>100:100</td>
<td>12-24 hours at room temperature for partial cure. Full cure takes 2-3 days. Alternatively, oven cure for 30 minutes at 77°C/170°F.</td>
<td>6 - 10 minutes</td>
</tr>
<tr>
<td>ELAN-Tron A-2399 ELAN-Tron B-2008 FC2**</td>
<td>Unfilled, two-component epoxy resin system. Designed for use as a terminal identification and battery sealant compound. Good adhesion to polystyrene and hard rubber battery cases.</td>
<td>4,500</td>
<td>2,600</td>
<td>2,600 - 4,000</td>
<td>100:44</td>
<td>12-24 hours at room temperature for partial cure. Full cure takes 2-7 days. Alternatively, oven cure for 30 minutes at 77°C/170°F.</td>
<td>2 - 4 minutes</td>
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* Available in Clear/Clear, Black/Clear, and Blue/Yellow.
** Available in Black/Clear, and Red/Clear.

For More Information Ask For Our Technical Data Sheets.
Battery Sealants

Batteries are a common power source for many household and industrial applications. Independent of end use application, all batteries need adequate sealing to prevent leaks ensuring safe and efficient use and long life.

To accomplish this, the proper selection of sealing material and adhesion of all components is key.

Product Summary

**ELAN-Tron®** resins are room-temperature curing epoxy battery sealant systems that provide excellent adhesion to a variety of substrates used in battery construction, including polypropylene, polycarbonate, ABS, SAN, and hard rubber.

**Features**
- ✓ Moisture and chemical resistant, including sulfuric acid resistance at 150°F
- ✓ Can be tailored for specific applications in battery construction:
  - Rigid adhesion for secure ‘plate-lock’ of elements to bottom of battery case
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<tr>
<td>ELAN-Tron® A-2003</td>
<td>Unfilled, two-component epoxy resin system. Adhesive for bonding and sealing polypropylene and hard rubber battery cases. Moisture and chemical resistant including 1.265 S.G. sulfuric acid up to 150°F.</td>
<td>12,000</td>
<td>7,600</td>
<td>8,000 - 11,500</td>
<td>100:82</td>
<td>12-24 hours at room temperature for partial cure. Full cure takes 5-7 days. Alternatively, oven cure for 30 minutes at 77°C/170°F.</td>
<td>5 minutes</td>
</tr>
<tr>
<td>ELAN-Tron® B-2009*</td>
<td>Filled, two-component epoxy resin system. Semi-thixotropic nature provides self-leveling without leakage. Adhesive for bonding and sealing polypropylene and ABS battery cases, as well as polycarbonate, polypropylene and hard rubber. White/Black system.</td>
<td>15,000</td>
<td>12,000</td>
<td>12,600 - 15,000</td>
<td>100:100</td>
<td>12-24 hours at room temperature for partial cure. Full cure takes 2-3 days. Alternatively, oven cure for 30 minutes at 77°C/170°F.</td>
<td>6 - 10 minutes</td>
</tr>
<tr>
<td>ELAN-Tron® A-2040</td>
<td>Unfilled, two-component epoxy resin system. Adhesive for bonding and sealing polyethylene and ABS battery cases, as well as polycarbonate, polypropylene and hard rubber. Provides improved 1.265 S.G. sulfuric acid resistance over 160°F. Clear/Clear system.</td>
<td>1,500</td>
<td>500</td>
<td>800 - 1,000</td>
<td>100:44</td>
<td>12-24 hours at room temperature for partial cure. Full cure takes 2-7 days. Alternatively, oven cure for 30 minutes at 77°C/170°F.</td>
<td>6 - 10 minutes</td>
</tr>
<tr>
<td>ELAN-Tron® B-2043**</td>
<td>Designated for use as a terminal identification and battery sealant compound. Good adhesion to polycarbonate and hard rubber battery cases.</td>
<td>4,000</td>
<td>2,600</td>
<td>2,600 - 4,000</td>
<td>100:44</td>
<td>12-24 hours at room temperature for partial cure. Full cure takes 2-7 days. Alternatively, oven cure for 30 minutes at 77°C/170°F.</td>
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