



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.

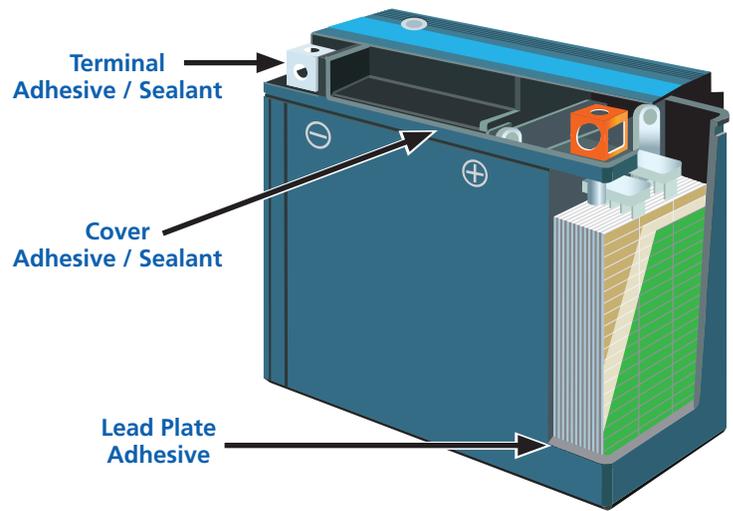
To accomplish this, the proper selection of sealing material and adhesion of all components is key.

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



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.

Product Uses

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



Application Methods

Manual • Meter-Mix



Product Characteristics at a Glance

Product	Unique Characteristics	Average Viscosity (cP) at 25°C/77°F	Mixed Viscosity (cP) at 25°C/77°F	Mix Ratio (by weight)	Cure Schedule for Optimum Properties	Working Life at 25°C/77°F	Shore D Hardness
ELAN-Tron® A-2003 ELAN-Tron® B-2006*	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.	12,000 7,000	8,000 - 11,000	100:82	12-24 hours at room temperature for partial cure. Full cure takes 5-7 days. Alternately, oven cure for 30 minutes at 77°C/170°F.	5 minutes	80+
ELAN-Tron® A-2049 ELAN-Tron® B-2050	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.	15,000 12,000	12,000 - 15,000	100:100	12-24 hours at room temperature for partial cure. Full cure takes 2-3 days. Alternately, oven cure for 30 minutes at 77°C/170°F.	6 - 10 minutes	80+
ELAN-Tron® A-2042 ELAN-Tron® B-2043	Unfilled, two-component epoxy resin system. Adhesive for bonding and sealing polystyrene 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.	1,500 500	800 - 1,000	100:44	12-24 hours at room temperature for partial cure. Full cure takes 2-3 days. Alternately, oven cure for 30 minutes at 77°C/170°F.	6 - 10 minutes	80+
ELAN-Tron® A-2399 ELAN-Tron® B-2006 FC2**	Unfilled, two-component epoxy resin system. Designed for use as a terminal identification and battery sealant compound. Good adhesive to polypropylene and hard rubber battery cases.	4,500 2,000	2,000 - 4,000	100:44	12-24 hours at room temperature for partial cure. Full cure takes 2-7 days. Alternately, oven cure for 1 hour at 65°C/150°F.	2 - 4 minutes	70+

* 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.



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.

ELANTAS PDG, Inc.

Today, ELANTAS PDG, Inc. is recognized as the premier global supplier of specialty polymers for the electrical and electronic industries. ELANTAS PDG, Inc. is a member of ALTANA's ELANTAS Electrical Insulation Division based in Wesel, Germany.

With the support of ALTANA and by working with other ALTANA divisions, we offer a unique global approach to research, manufacturing and service that translates into more creative solutions, dependable supply and consistently high quality.

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.

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A member of  **ALTANA**



ELANTAS PDG, Inc. headquarters in St. Louis, Missouri

ELANTAS Electrical Insulation companies are strategically located throughout the world to meet the primary insulation, secondary insulation and electronic and engineering materials needs of our customers.

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