

Technical Data Sheet

Electrical Insulation Materials

**ELAN-Tron[®] E 203 DP Black Resin
ELAN-Tron[®] C 301 Hardener**

Two-Component Epoxy Sealer Paste

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ELAN-Tron[®] E 203 DP Black Epoxy Sealer Paste

Product Description

ELAN-Tron[®] E 203 DP Black Epoxy Sealer paste is a two-component, high-solids epoxy system.

Areas of Application

Bonds to a variety of substrates, including ceramic bushings, diesel engine A-frames, leaking transformers, and glass lined vats. It can also be used in layers with glass cloth to build cure-in-place laminates.

Features and Benefits

- Room temperature or low heat cure
- Resistant to chemicals
- High solids to provide heavy build
- High adhesive strength
- Thixotropic for low run-off

Application Methods

- Apply with a spatula or wooden stirrer

Transportation / Storage

Store below 25°C / 77°F in a dry controlled environment out of direct sunlight. This material should be suitable for use stored under these conditions in the original sealed containers for twelve (12) months from the date of shipment.

Failure to store this product as recommended above may lead to deterioration in product performance.

Mix individual components thoroughly before use

Health and Safety

Refer to the Safety Data Sheet.

See ELANTAS PDG Technical Bulletins *TI-100 - Handling Precautions for Epoxy Resins* and *TI-4005 - Epoxy Reaction Potential Hazards* for additional information.

Typical Properties of Material as Supplied

Property	Conditions	Value		Units
		ELAN-Tron [®] E 203 DP Black Resin	ELAN-Tron [®] C 301 Hardener	
Viscosity	25°C / 77°F	paste	5 - 10	cP
Weight per Gallon	25°C / 77°F	13.4 – 13.8	7.7 - 8.0	pounds
Flash Point	ASTM D93	> 94 > 201	> 94 > 201	°C °F
Mix Ratio	Parts by weight Parts by volume	100 100	5 8.7	

Typical Properties of Mixed Material

Property	Conditions	Value	Units
Pot Life – 200 mL	25°C / 77°F	1 - 2	hours

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Application / Curing Schedule

For best results, prepare the surface with sanding and solvent wash before use. For surface areas requiring release, apply a release agent and allow to dry prior to application of this epoxy.

Mix Resin and Hardener in specified ratio until homogeneous.

Cure 24 hours at 25°C / 77°F. Allow 5 - 7 days to develop full properties.

Alternatively air dry until tack free, followed by a post cure of 4 hours at 65°C / 149°F

The cure schedules above are based on time after the unit reaches the specified temperature and are recommendations only. The user is responsible for determining the optimum cure conditions for their application.

Typical Mechanical Properties

Property	Test Method	Conditions	Value	Units
Lap Shear	ASTM D1002	25°C / 77°F	2500	psi
Tensile strength	ASTM D 638	25°C / 77°F	8000	psi
Compressive Strength	ASTM D 638	25°C / 77°F	16,000	psi
Flexural Strength	ASTM D 790	25°C / 77°F	18,000	psi
Hardness	Barcol	25°C / 77°F	35	

Typical Electrical Properties

Property	Test Method	Conditions	Value	Units
Dielectric Strength	ASTM D149	25°C / 77°F - 20 mils	500	volts/mil
Dielectric Constant	ASTM D150	1 kHz - 25°C / 77°F	3.3	
Volume Resistivity	ASTM D257	25°C / 77°F	2.0 x 10 ¹⁵	ohm-cm

The above properties are typical values and are not intended for specification use.

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