

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

DESCRIPTION: A two-component epoxy sealer supplied as a viscous resin, ELAN-Tron[®] E 203 Black, and a fluid liquid hardener, ELAN-Tron[®] C 301. When mixed, the paste cures at room temperature.

REPAIRS, MENDS, SEALS, CAULKS, INSULATES, WATERPROOFS

ELAN-Tron[®] E 203 Black / C 301 is a highly adhesive, chemical-resistant, general-purpose epoxy system. Typical maintenance and repair applications: bonding broken ceramic bushings, sealing cracks in diesel engine A frames, sealing leaking transformers and repairing glass-lined vats.

TYPICAL PROPERTIES:

Adhesive Strength (Lap Shear)	2,500 psi
Tensile Strength	8,000 psi
Compressive Strength	16,000 psi
Flexural Strength	18,000 psi
Water Absorption, 24 hrs	0.1%
Barcol Hardness	35
Shrinkage	0.2%
Dielectric Strength, 25°C / 77°F	500 v/mil (20 mils thick)
Dielectric Constant, 25°C / 77°F	3.3 @ 1 kHz
Volume Resistivity, 25°C / 77°F	2×10^{15} ohm/cm
VOC (ASTM D6053)	< 0.1 pounds/gallon

SURFACE PREPARATION: For plastics, wipe with solvent, sand lightly and dry. For metals, sand blast or wire brush and wash with solvent. For surface areas requiring release, apply release agent and allow to dry prior to application of epoxy.

MIXING PROCEDURE: Mix 5 parts by weight of ELAN-Tron[®] C 301 Hardener into 100 parts by weight of ELAN-Tron[®] E 203 Black Resin.

APPLICATION METHOD: Spatula or wooden stirrer; apply mixed paste to parts and position them. Contact pressure is adequate.

ELAN-Tron[®] E 203 / C 301 may also be used with glass cloth to build high strength, cure-in-place laminates. Apply the mixed paste to the cloth layer by layer. Such glass cloth reinforcement is particularly useful for sealing pressure vessels or reinforcing formed coils.

CURE SCHEDULE: Applied paste will set in 60 minutes at 25°C (77°F). Allow to cure overnight at room temperature. Heating will speed cure.

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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.

HEALTH / SAFETY: Avoid contact with skin. Use under conditions of good ventilation. Use soap and water after skin contact.

Refer to the Material Safety Data Sheet for additional storage and handling information.

If unfamiliar with handling epoxy systems, see ELANTAS PDG Technical Bulletin *TI-100 - Handling Precautions for Epoxy Resins* for additional information.

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

ELANTAS PDG, Inc. warrants the chemical composition of its products within stated tolerances, but does not guarantee that a product will be appropriate for any particular application. Any recommendation, performance of tests or suggestion is offered merely as a guide and is not a substitute for a thorough evaluation by the user. No representative of ELANTAS PDG, Inc. has the authority to offer a warranty that a product will perform satisfactorily in manufacturing a product and no such representation should be relied upon.