



**EPOXY STRUCTURAL ADHESIVE E-107**

E-107 is a high performance toughened single component adhesive which provides exceptional shear strength in combination with high peel strength, impact resistance, and good temperature resistance. Especially suitable for bonding magnets and other applications where dissimilar materials are bonded and must withstand long term thermal cycling. If used for multi segment motor rotors, the rotor should have a tight fitting sleeve to help to withstand centrifugal force. For non sleeved multi segment motor rotors operating at temperatures above 100C use E-114 for best results. E-107 offers higher hot bond strength and long term durability than modified acrylic adhesives and 2 part epoxies. Has good adhesion to plastics as well as metal and ceramics.

**PROPERTIES**

appearance.....	grey viscous paste
specific gravity.....	1.2
viscosity.....	thixotropic
tensile bond strength steel to steel, aluminum oxide blasted, cured 1 hour at 150°C	
tested at RT.....	7,242 psi
tested at 100°C.....	3,272 psi
tested at 150°C.....	426 psi
shear strength, neo magnet to steel, both surfaces aluminum oxide blasted, cured 1 hr 150C	
tested at RT.....	5,942 psi
maximum continuous use temperature.....	150°C
maximum short time use temperature.....	200°C
bondline thickness.....	0.0005 in.

**CURE CONDITIONS**

Cure for 1hr 150°C

All times are for time at the specified temperature as measured at the bondline. Time must be allowed for the bondline to reach temperature.

**STORAGE**

Refrigerated storage is desirable. Shelf life is at least 12 months at 0°C, 6 months at room temperature (25°C)

**HANDLING**

All contact with skin or ingestion should be avoided in accordance with normal handling procedures with epoxy resins. No warranty or guarantee is made regarding this material. The user should determine suitability for a given application. For more information see SDS.

**PRICING**

2 oz. sample jar \$90.00 ea., 1 pound can \$200.00 ea.

Rev I 4/24/24 Specifications subject to change without notice

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