

Technical Data Sheet

Electronic & Engineering Materials

Sterling[®] E A50 T-7B

Two-Component Epoxy Adhesive System

Sterling® E A50 T-7B

Product Description

Sterling® E A50 T-7B is a filled, 100%-solids, two-component epoxy resin system.

Areas of Application

Metal-to-metal adhesive and sealant for applications requiring oil and jet fuel resistance

Features and Benefits

Room temperature or heat cure

Thixotropic for minimal flow during cure

Supplied in 6-gram pre-weighed, two-component burst-packs

Conforms to GE Aircraft Engine Group specification A50T7 Class B requirements

Application

Break burst-pack dividing seal. Mix Resin and Hardener together by kneading with fingers until homogeneous.

Cut end of burst pack with scissors. Apply with spatula.

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 the product as recommended above may lead to deterioration in product performance.

Health / Safety

Refer to the Material Safety Data Sheet.

Typical Properties of Material as Supplied

Property	Conditions	Value		Units
		Resin	Hardener	
Viscosity	25°C / 77°F	Paste	500 - 700	cP
Weight per Gallon	25°C / 77°F	15.1 - 15.5	8.4 - 8.8	pounds
Flash Point	ASTM D93	> 94 > 201	> 94 > 201	°C °F

Curing Schedule

Pot life after mixing is 20 - 30 minutes at room temperature

Cure for 96 hours minimum at 25°C / 77°F - or -

2 hours minimum at 163 - 177°C / 325 - 350°F

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Typical Mechanical Properties

Specimens cured two hours at 163°C / 325°F

Property	Conditions	Value	Units
Tensile Shear Strength	24°C / 75°F 190°C / 375°F	> 2000 > 175	psi psi
Tensile Shear Strength After 100 hours at 121°C / 250°F	24°C / 75°F	> 2000	psi
Tensile Shear Strength After 100 hours in lubricating oil at 177°F / 350°F	24°C / 75°F	> 2000	psi
Tensile Shear Strength After 100 hours in JP-4 at 65°C / 150°F	24°C / 75°F	> 2000	psi

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

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