



Minco #15 Epoxy

Product Overview

Minco #15 Epoxy is a two-part structural epoxy designed for bonding, and encapsulating components in demanding industrial and aerospace applications. Supplied in a convenient pre-measured 10-gram package, it simplifies mixing and installation while ensuring consistent results.

The epoxy cures at room temperature with accelerated cure options and forms durable bonds to metals, ceramics, plastics, and other materials. Once cured, it delivers reliable mechanical strength, withstands high-impacts, is chemical resistant, and provides good thermal conductivity while being electrically insulating. Meeting NASA outgassing requirements for space vacuum environments, Minco #15 epoxy is well suited for high-reliability applications where durability and environmental resistance are critical.

Request SPI 00-0855 for installation instructions.

Product Features

- **Convenient Pre-Measured Package** – Supplied as ready-to-mix resin and hardener in a single 10-gram package for simple and accurate preparation.
- **Extended Working Time** – 45-minute pot life after mixing allows ample time for installation and positioning.
- **Reliable Room-Temperature Cure** – Develops most mechanical and structural properties after 18 hours at room temperature.
- **Space-Qualified Low Outgassing** – Meets NASA limits for outgassing in space vacuum environments, making it suitable for aerospace and space applications.
- **Chemical Resistance** – Fully cured epoxy resists salts, mild acids, alkalis, petroleum products, lubricating oils, and alcohol.
- **Thermally Conductive Epoxy** – Thermal conductivity of 0.95 W/(m·K) supports efficient heat transfer in thermal management applications.
- **Controlled Thermal Expansion** – Dimensional stable across temperature changes.
- **Stable Shelf Life** – Unopened shelf life of at least **3 months**, extended when refrigerated.

Product Specifications

Typical Uncured Properties	Resin
Color	Blue
Consistency	Medium viscosity paste
Specific gravity	2.45
Typical Uncured Properties	Hardener
Color	Light Amber
Consistency	Liquid
Specific gravity	1.01
Typical Cured Properties	Minco #15 Epoxy
Color	Blue
Specific gravity	2.3
Mechanical:	
Viscosity (after mixing, before cured) cP @ 25°C	40,000
Hardness, Shore D	90
Electrical:	
Dielectric strength, v/mil	410
Dielectric constant, 1KHz @ 25°C	5.9
Dissipation factor, KHz @ 25°C	0.01
Volume resistivity, ohm-cm @ 25°C	2.10 X 10 ¹⁵
Thermal:	
Thermal conductivity (W/(m-K))	0.95
Coefficient of thermal expansion (ppm/°C)	26
Operating temperature range (°C)	-70 to 115

Agency Certifications

Approved by NASA for spacecraft use per NASA-RP-1124

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