



EY0540A/EY0043B

High Temperature Laminating Resin

EY-0540A/EY-0043B is an unfilled, medium viscosity laminating system for high temperature plastic tooling, small tool fabrication, or as a sealer resin for flame spray coatings for 350°F cured parts.

EY-0540A/EY-0043B is a two-part, room temperature cured epoxy compound. It sets hard at room temperature and will not stain skin or clothing.

EY-0540A/EY-0043B conforms to the requirements of BMS8-207 Type 1, Class 2 specification.

Technology / Base	Epoxy
Type of Product	Structural Epoxy
Components	Two Component
Curing	Room Temperature or Thermal Cure
Appearance / Color	Amber
Consistency	Liquid
Recommended Application	Laminating Resin

Features and Benefits

- Qualified to Boeing BMS8-207 Type 1, Class 2 specification
- Unfilled system
- Room Temperature or Thermal Cure
- Sealing and potting aluminum flame sprayed coatings

Technical Data

Physical Properties (uncured)	Part A (base)	Part B (hardener)	Mixed
Viscosity	10,000 cPs	25 cPs	1800-2250 cPs
Color	Amber	Brown	Amber
Mix Ratio by Volume	10.5	1.85	-
Mix Ratio by Weight	100	15	-

Physical Properties (cured)	Results	Notes
Specific Gravity - Mix	1.0-1.1	Maximum
Pot Life	20-30	Minutes
Service Temperature	-20°C to 180°C	Continuous Range
Service Temperature	-4°F to 360°F	Continuous Range
Compressive strength	15,000 psi	Minimum
Compressive Modulus	125,000 psi	Minimum
Tensile Shear Strength	800 psi	Minimum



Cure Profile

Conditions	Time
Full Cure at 75°F ± 10°F	12 hour minimum
Full Cure at 160°F ± 10°F	1 hour minimum

Let set overnight at room temperature, then post-cure 2 hours at 200°F. For use at 250°F or above, post-cure 1 hour at 300°F.

Application Instructions

Critical tools should be vacuum bagged, but in many cases contact laminating is suitable.

As a general rule, resin systems should be cured 50°F higher than the service temperature for which they are intended.

Storage Conditions

The shelf life of EY-0540A/EY-0043B is 12 months when stored between 40°F and 80°F (4°C - 26°C). Product should be stored in a cool dry place out of direct sunlight. Exposure to temperatures above 80°F will reduce the shelf life.

Safety and Disposal

Please see the Material Safety Data Sheet (SDS) for proper handling and disposal instructions.

Specifications and Approvals

- BMS8-207, Type 1, Class 2 (see QPL)

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