

Advanced Materials

Epibond[®] 8543 C/B Epoxy Adhesive

- **Fast Setting**
- **Convenient 1:1 Mix Ratio**
- **Paste Consistency**

DESCRIPTION

Epibond[®] 8543 C/B epoxy adhesive is an extremely fast-setting system for quick repair and bonding applications, even at colder temperatures. At 77°F (25°C), bonded parts may be handled in 10 minutes and will develop high strength within one hour. Epibond[®] 8543 C/B epoxy adhesive is supplied in contrasting colors. Complete mixing is indicated by a uniform gray color. This product is qualified to BMS 5-123, Type 1, Class 3.

TYPICAL PROPERTIES AS RECEIVED

Property	Test Method	Test Temperature	8543 C Resin	8543 B Hardener	Mixed System
Color	Visual	--	White	Black	Gray
Density, g/cc	ASTM D1875	77°F (25°C)	1.25	1.30	1.25
Viscosity, cP	ASTM D2196	77°F (25°C)	200,000	235,000	Paste
Gel Time, 20g, min	ASTM D2471	77°F (25°C)	--	--	3

MIX RATIO

If using bulk containers, to 100 parts by weight of Epibond[®] 8543 C resin, add 100 parts by weight of Epibond[®] 8543 B hardener or 1:1 parts by volume. Mix only that quantity which can be applied immediately after mixing. Due to the very fast setting properties of Epibond[®] 8543 C/B, hand mixing of the components should be avoided. Epibond[®] 8543 C/B is available in 50 mL twin cartridges. For best results, Epibond[®] 8543 C/B should be dispensed using manual or pneumatic dispensing equipment through a 0.25 in diameter, 20 element static mixing nozzle (Nordson EFD #7701488), or equivalent. For other mixing and application recommendations, please consult your local Huntsman Advanced Materials representative or one of our distributors.

CURE SCHEDULE

30-60 minutes at 77°F (25°C) or 1-2 hours at 45°F (7°C) or 1 hour at 70°C. May be cured at elevated temperatures to achieve optimum properties quickly.

TYPICAL CURED PROPERTIES (Not for specification purposes)

Test	Test Method	Test Temperature	Result
Tensile Lap Shear, Al-Al	ASTM D1002	-67 °F (-55 °C)	2100 psi (14.5 MPa)
		77 °F (25 °C)	2000 psi (13.8 MPa)
		180 °F (83 °C)	500 psi (3.4 MPa)

STORAGE

Epibond® 8543-C/B should be stored in a dry place, in the sealed original container, at temperatures between +2°C and +40°C (+35.6°F and 104°F). The product should not be exposed to direct sunlight. Under these storage conditions, and when supplied under Huntsman standard certification, this product has a shelf life of 1 year from date of shipment (expiration date may differ based on customer specification).

Material temperatures should be above 18°C (65°F) when mixing. After use, tightly reseal containers.

PRECAUTIONARY STATEMENT

Huntsman Advanced Materials Americas LLC maintains up-to-date Material Safety Data Sheets (MSDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

First Aid!

Refer to MSDS as mentioned above.

KEEP OUT OF REACH OF CHILDREN**FOR PROFESSIONAL AND INDUSTRIAL USE ONLY**

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