

Epibond® 8543 C/B Epoxy Adhesive

Product 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.

Features

- Fast setting
- Convenient 1:1 mix ratio
- Paste consistency

Typical Properties*

Property	Test Method	8543 C Resin	8543 B Hardener	Mixed System
Appearance	Visual	White	Black	Gray
Density at 25°C, g/cm ³	ASTM D792	1.25	1.30	1.25
Viscosity at 25°C, cP	ASTM D2196	200,000	235,000	Paste

*Properties are based on Huntsman test methods. Copies are available upon request.

Processing

Mix Ratio

Product	Parts by weight	Parts by volume
Epibond® 8543 C Resin	100	3
Epibond® 8543 B Hardener	100	2

Material temperatures should be above 18°C (65°F) when mixing. 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.

Processing Data

Parameter	Value
Gel time, 20 g at 25°C, min	3
Typical cure cycles*	30 - 60 min at 77°F (25°C), or
	1 - 2 hour at 45°F (7°C), or
	1 hour at 158°F (70°C)

*May be cured at elevated temperatures to achieve optimum properties quickly

Typical Physical Properties

Unless otherwise stated, the data were determined with typical production batches using standard test methods. They are typical values only, and do not constitute a product specification.

Property	Test Method	Value
Tensile lap shear, Al-Al, psi (MPa)	ASTM D1002	
at -67°F (-55°C)		2,100 (14.5)
at 77°F (25°C)		2,000 (13.8)
at 181°F (83°C)		500 (3.4)

Storage

Epibond® 8543 C/B should be stored in a dry place in the original sealed containers at temperatures between 2°C and 40°C (36°F and 104°F). After use, tightly reseal containers. Under these storage conditions, and when supplied under Huntsman standard certification, the product has a shelf life of **1 year** (from date of manufacture). The product should not be exposed to direct sunlight.

Precautionary Statement

Huntsman Advanced Materials Americas LLC maintains up-to-date Safety Data Sheets (SDS) 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 SDS as mentioned above.

KEEP OUT OF REACH OF CHILDREN

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Main Offices:

Huntsman Corporation
10003 Woodloch Forest Dr
The Woodlands, TX 77380
888-564-9318

Huntsman Advanced Technology Center
8600 Gosling Rd.
The Woodlands, TX 77381
281-719-7400