

LCBA77-90

- Ambient Cure Epoxy Adhesive System
- Two Part System – 2:1 Mix Ratio
- Low Shrinkage
- Excellent Stiffness
- Dissimilar Surface Bonding

Description:

LCBA77-90 is a two part, epoxy adhesive, with low shrinkage and excellent single lap shear strength. LCBA77-90 has a short gel and a 2:1 mix ratio. It is available in a thixotropic (-TX) version as well for filling large gaps. LCBA77-90 bonds strongly with PVC, steel, aluminum, concrete, wood, and other composites. It is not a VOC and exhibits high corrosive resistance.

Typical Properties as Received:

Property	Value	Test Method
Density, g/cc	1.0	ASTM D-1622
Color : part A	Black	Eyesight
Color : part B	Amber	Eyesight
Viscosity part A, cP, at 77°F (25°C)	11,000	ASTM D4287
Viscosity part B, cP, at 77°F (25°C)	1000	ASTM D4287

Cure Schedule:

LCBA77-90 has a 40 minute pot life at 77°F (25°C). It has a time to green strength of 2 hours and reaches working strength after 24 hours. The **mix ratio is 2:1 by weight.**

CAUTION: Do not have bulk material sitting after mixing in amounts greater than 50g. After mixing, spread material immediately on surfaces. Any excess material must be spread out using a squeegee to thickness not exceeding quarter inch so as to minimize exotherm.



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Typical Properties Once Cured*:

Property	Value	Test Method
Weight gain,%, after 24 hour immersion in water at 77°F (25°C)	< 2	ASTM D-543
Single lap shear, psi, Aluminum	3000 - 5000	ASTM D1002-10
Single lap shear, psi, Steel	2500 - 3500	ASTM D1002-10

Long Term Storage:

LCCA77-90 should be stored in a dry place, sealed in its original container. If stored at -40°F (-40°C), the product will remain useable for 24 months after the date of shipping from Lattice Composites. If stored at 0°F (-18°C), the product will remain useable for 12 months after the date of shipping from Lattice Composites.

Precautions:

Lattice Composites ships all products with Safety Data Sheets (SDS). These sheets are compiled and maintained to allow all of Lattice Composites customers to protect their customers and employees against any known health or safety hazards. It is strongly suggested that users of our products review the appropriate SDS before use allowing them to make informed decisions about any necessary actions needed to protect themselves and their employees. Copies of the latest SDS for any product can be obtained by contacting our offices at 951-826-1101.

Disclaimer:

The values stated in this data sheet in no way constitute a guarantee or warranty of any kind. The values are obtained by averaging laboratory test results. The actual values that a customer will get depend upon individual processing and sample conditions. It is highly recommended that the user conduct their own experiments to ascertain properties.

Proper care should be taken at all times with regard to handling and use of this material. The purchaser and/or user should obtain Safety Data Sheets, containing information on hazards, toxicity, storage and handling, from Lattice Composites. The purchaser and/or user should ensure that all persons who will be in contact with products are trained regarding their use, storage and disposal. All persons using Lattice Composites products should use appropriate personal protective equipment. Lattice Composites accepts no responsibility or liability regarding any injury or damages resulting from the use of its products.