



# PRODUCT DATA SHEET

LC-E101

2-Part Flame Retardant Paste Adhesive

### Description

LC-E101 is a two part flame retardant epoxy specifically designed for bonding various substrates, e.g., metallic, composite, etc. into finished shapes or structures. LC-E101 can be cured at room temperature or elevated temperatures for an accelerated handling strength.

### Advantages

The mixing and handling characteristics make LC-E101 an asset on the shop floor. Pre-packaged 20 ounce cartridges allow easy mixing and application through dispensing gun. Color coded Part A and Part B allow user to ensure thorough mixing.

### Physical Properties & Mix Ratio

Density: 1.16 g/cm<sup>3</sup> per ASTM D792

Part A: White paste

Part B: Cream paste

Combined mixture: White paste

Mix Ratio by weight: 2:1

### Available Packaging

20 oz. Barrier kit cartridge (LC-E101/20C)

1 gallon kit (11.6 lbs.) (LC-E101/1)

5 gallon kit (58 lbs.) (LC-E101/5)

Other packaging available upon request

### Pot/Shelf Life

Pot Life at Room Temperature: 70° F (21° C): 60 Minutes (500 grams mass)

Shelf Life @ Room Temperature: 70° F (21° C): 12 Months

**CAUTION: WHEN MIXING QUANTITIES IN EXCESS OF 500 GRAMS, USE CAUTION AS LARGER MIX QUANTITIES AND/OR EXCESSIVE MIX TIME CAN CAUSE AN INCREASED EXOTHERMIC (IE. VERY HOT) REACTION. THE USER IS ENCOURAGED TO DEVELOP STANDARD MIX PRACTICES.**

### Cure Cycle Recommendations

Handling Strength: 4 hours at Room temperature (70° F) (21° C)

Accelerated Handling Strength: 120 minutes at 150° F (65° C)

Full Strength/Cure: 7 Days at Room temperature (70° F) (21° C)

Mechanical Properties				
Property	Tested per Specification	-67° F	70° F	160° F
Hardness (Shore D)	ASTM D2240	N/A	80	N/A
Lap Shear (psi)	ASTM D1002-10	N/A	2850	1625
Lap Shear (psi) (14 Day Conditioning @ 160° F/ 95% RH)	ASTM D1002-10	N/A	3320	N/A
Compression (psi)	ASTM D695	N/A	7450	N/A
Work /Pot Life (After 60 minutes from blending) Shear Strength (psi)	ASTM D1002-10	N/A	3000	N/A

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REV 160826