



PRODUCT DATA SHEET

LC-E105

2-Part Flame Retardant
Paste Adhesive

Description

LC-E105 is a two part flame retardant epoxy specifically designed for bonding various substrates, e.g., metallic, composite, etc. into finished shapes or structures. LC-E105 can be cured at room temperature or elevated temperatures for an accelerated handling strength.

Advantages

The mixing and handling characteristics make LC-E105 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/ml per ASTM D1875-03
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-E105/20C)
1 gallon kit (11.6 lbs.) (LC-E105/1)
5 gallon kit (58 lbs.) (LC-E105/5)
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	4100	2100
Lap Shear (psi) (14 Day Conditioning @ 160 F/ 95% RH)	ASTM D1002-10	N/A	3600	N/A
Compression (psi)	ASTM D695	N/A	7800	N/A
Work/Pot Life (After 60 minutes from blending) Shear Strength (psi)	ASTM D1002-10	N/A	3700	N/A

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