



SOLUTION
L&L Reinforce

VERSION
September 2021

L-9060

FST Aircraft interior edge & core filler compound.



PRODUCT DESCRIPTION

L&L Reinforce L-9060 is a fire, smoke, and toxicity (FST) compliant, two-component light weight epoxy formulation designed for panel finishing and reinforcement of aircraft interiors.

Key Product Attributes

- Cures quickly at room temperature to maximize production efficiency
- REACH compliant, does not contain any CMR substances and is very low odor
- Can be used in honeycomb sandwich structures typically found in aircraft interiors for void-filling and edge sealing.
- Compliant to vertical burn, smoke density and smoke toxicity accordingly to FAR & JAR 25 853 and Airbus ABD0031
- Material is supplied in 400ml cartridges or pails for use with bulk pumping equipment.

Technical Data

The following information and data should be considered typical and should not be used for specification.

		L-9060 Part A	L-9060 Part B	Mixed	
Physical Properties	Chemistry	Formulated epoxy	Formulated amine	-	
	Consistency	Smooth paste	Smooth paste	Thixotropic paste	
	Color	Light blue	Off-White	Light blue	
	Density	0.55 - 0.59 g/cm ³	0.55 - 0.59 g/cm ³	0.55 - 0.59 g/cm ³	
	Mix ratio (weight)	100: 50			
	Mix ratio (volume)	2:1			
		Test Temperature	Value		
	Extrusion rate in cartridge (6 bars pneumatic gun)	23°C	52 g/min		
	Max Life-Time in Nozzle	23°C	20 min		
	Working time (spreading time with spatula)	23°C	70 min		
Sanding time	23°C	180 min			
Full cure-time	23°C	24 hours			
Shore D hardness after full cure	23°C	50 Shore D			
	Cure Conditions	Value	Test Methods		
Mechanical Properties	Compressive strength at -55°C	5 days 23°C	22 MPa	ISO 604	
	Compressive strength at 23°C	5 days 23°C	14 MPa	ISO 604	
	Compressive strength at 80°C	5 days 23°C	6 MPa	ISO 604	
	Compressive modulus at 23°C	5 days 23°C	420 MPa	ISO 604	
	Shear Strength	23°C	2000 N	AITM 1-00046	
		Ageing tests	Test Temperature	Value	Test Methods
	Compressive strength after 1000 h 70°C 85% RH	23°C	14 MPa	ISO 604	
	Water absorption after 1000 h 70°C 85 % RH	23°C	2%	PR EN 3615	
	Compressive strength after 500 h 80°C dry	23°C	19 MPa	ISO 604	
	Compressive strength after 500 h in water at RT	23°C	11 MPa	ISO 604	
Absorption after 500 h in water at RT	23°C	2.8%	PR EN 3615		

Technical Data

		Requirements	Results	Test Methods	
Fire Properties 6.35 mm thick coupons	Flammability 12s vertical	Burn length	< 203 mm	30 mm	
		After flame	< 15 s	2 s	AITM 2.0002 B
		Drips time	< 6 s	No drips	
	Optical smoke density	200 Ds max	106 Ds	AITM 2.0007 A	
	Smoke toxicity	HF	< 100 ppm	0 ppm	AITM 3.0005
		HCl	< 150 ppm	0 ppm	
		HCN	< 1000 ppm	15 ppm	
		SO ₂ +H ₂ S	< 100 ppm	2 ppm	
		CO	< 1000 ppm	210 ppm	
		NO _x	< 100 ppm	90 ppm	

Product Application

L&L L-9060 should be applied in a temperature range between 20°C and 25°C.

The two components can be mixed and applied directly from the cartridge using a static mixer. L-9060 can also be used with bulk pumping and mixing equipment.

When using a cartridge, the first quantity extruded out of the nozzle should be scrapped until the color is uniform.

Once applied on the panel edge, L-9060 bead can be smoothed with a spatula for approximately 70 min. It can be sanded after 3 hours. The full cure time is reached after 24h at 23°C.

Shelf Life & Storage Conditions

Shelf life: 18 months from date of manufacture when stored at or below 23°C (73°F).

Health & Safety

Consult product specific Safety Data Sheet.

All of our products are developed with REACH compliance substances and not CMR classified.