



**SOLUTION**  
L&L Reinforce

**VERSION**  
January 2022

# L-9020

## FST Single-Component Reinforcement Paste.



### PRODUCT DESCRIPTION

L&L Products' L-9020 is a lightweight FST epoxy-based material that has been developed to allow honeycomb cores to be readily reinforced in strategic areas without adding unnecessary weight.

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L&L Products' Aircraft Panel Reinforcement is a lightweight FST epoxy-based material that has been developed to allow honeycomb cores to be readily reinforced in strategic areas without adding unnecessary weight.

Typical applications include edge enhancement and reinforcing a localized area so that it is capable of accepting metal hinges and inserts.

It is supplied as a homogeneous material, therefore no mixing or weighing of separate components is required.

L-9020 can be used for manual application or mechanical pump process. This 'no odor' material contains no CMR products and therefore is user-friendly.

Once cured, L&L's Aircraft Panel Reinforcement can be readily machined and sanded.

## Key Product Attributes

- FST regulations compliant - FAR 25,853, ABD0031
- Lightweight
- High mechanical properties
- User-friendly
- Extended shelf life
- Smooth curing, reduced post processing machining

## Typical Application Areas

- Honeycomb filling
- Local reinforcement
- Border enhancement
- Insert bonding

## Technical Data

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

	L-9020	Test Method	
Physical Properties	Color	White	
	Final Density	0.6 g/cm <sup>3</sup>	
	Consistency	Thixotropic paste	
	Shelf Life @ 23°C (75°F)	30 days	
	Odor	No odor	
	Processing	Manual / Mechanical Pump	
Mechanical Properties	Compressive Strength @ 23°C (75°F)	24.1 MPa [3,500 psi]	
	Compressive Modulus @ 80°C (176°F) - ISO 604	13.8 MPa [2000 psi]	ASTM D695
	Compressive Modulus @ 23°C (75°F) - ISO 604	2.4 GPa [350 ksi]	
Fire Properties	Vertical Burn 60 s	Pass	FAR 25.853(a), App. F part I(a)(1)(i)
	Smoke Density	Pass	FAR 25.853(d) App. F part V(b)
	Smoke Toxicity	Pass	ABD0031
Specification Compliance	HMS-C2-001		

## Optimal Curing Cycles

**Press Cure:** 160°C (320°F) for 15 min.

**Other curing cycles:** please contact your L&L Products representative.

## Shelf Life & Storage Conditions

**Shelf Life:** 2 years from date of manufacture when stored at at 0°C (32°F) or below.

Before use, let the material come up to room temperature in its sealed packaging to avoid any moisture uptake. Best handling is around room temperature

## Health & Safety

Consult product specific Safety Data Sheet.

All of our products are developed with REACH compliance.