

L-9020

FST Single-Component Reinforcement Paste

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.

L9020 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.

TYPICAL PROPERTIES			
		L-9020	Test Method
Physical Properties	Color	White	-
	Final Density	0.6 g/cm ³	-
	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]	ASTM D695
	Compressive Strength @ 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]	ASTM D695
Fire Properties	Vertical Burn 12 s (6.35 mm)	Pass	FAR25.853 App F Part 1 (a)(i)
	Vertical Burn 60 s (6.35 mm)	Pass	FAR25.853 App F Part 1 (a)(i)
	Smoke Density (6.35 mm)	Pass	FAR25.853 App F Part V (b)
	Smoke Toxicity (6.35 mm)	Pass	AITM 3.0005
Specification Compliancy		HMS-C2-001	-

Suggested Curing Schedule

- 25 min at 102-160°C (215-320°F).
- Other curing cycles (i.e. ramp): Please contact your L&L Products representative.

Shelf Life & Storage Conditions

- Shelf Life: 2 years from date of manufacture when stored at or below -6°C (21°F).
- 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.

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