



FLAME RETARDANT SYSTEMS

MEETS FAR 25.853A REQUIREMENTS

EPOXY LAMINATION SYSTEMS						
Product	Hardener	Tg (°F)	Cured Color	Mixed Viscosity (cps)	Pot Life (min/g)	Description & Applications
EL-319	EL-319 H	120	Lt. Amber	1,780	36/200	UV-resistant; Halogen-free; Unfilled system for fabricating parts or repairs on structures which require flame retardancy with room temperature curing capabilities
	EL-319-1 H	120	Lt. Amber	900	108/200	
EL-320	EL-320 H	140	Lt. Amber	2,650	45/200	Halogen-free; Unfilled system developed for use in fabricating parts or repairs on structures which require flame retardancy with room temperature curing capabilities
	EL-320-1 H	140	Lt. Amber	1,700	16/200	
AL 2020	AL 2021 H	131	Clear	1,000	65/100	Halogen-free; Unfilled system used with glass, carbon, aramid or hybrid fabrics. Ideal for high performance parts used in NASCAR fire retardancy applications. Suitable for vacuum bagging and RTM. Can be heated immediately for faster process times
	AL 2022 H	154	Clear	1,300	210/100	
	AL 2023 H	140	Clear	1,300	570/100	
Epolam 2500	Epolam 2500 H	212	Beige	3,500	90/500	Halogen-free; Filled system designed for production and repair of composite parts requiring flame and temperature resistance. Meets the requirements of Eurocopter specification ECS.2195.20 for interior fittings manufacture and repair

EPOXY INFUSION SYSTEMS						
Product	Hardener	Tg (°F)	Cured Color	Mixed Viscosity (cps)	Pot Life (min/g)	Description & Applications
EL-322	EL-322 H	210	Lt. Amber	550	49/100	Halogen-free; Unfilled system for use in fabricating parts or repairs which require flame retardancy with room temperature curing capabilities. Low mixed viscosity is suitable for vacuum infusion processes

POLYESTER FILLING & FAIRING COMPOUNDS					
Product (Formerly)	Use Temp (°F)	Pot Life (min/g)	Resin Color	Shore Hardness	Description & Applications
Micro-Ultra 15-3	130	6/50	White	76 D	Lightweight; Non-conductive; Qualified to several OEM specifications; Used for repair & finishing of interior composites
P-15-3 RR	130	6/400	White	87 D	Reducer resin for thinning of Micro-Ultra 15-3 or as a fast-set laminating resin; Qualified to several OEM specifications
SikaBiresin® AP771 (APF 77/1 R)	212	11/100	Off-White	80 D	Lightweight; Halogen-free; REACH-compliant; Low shrinkage; Used for surfaces, honeycomb panels and other substrates
SikaBiresin® AP405 (PFR-405)	400	6/102	Lt. Pale Yellow	73 D	Flame retardant; Halogen- and styrene-free; Lightweight; High heat-resistant; Used for filling porosity, surface blemishes, edge fill/ panel close out, and repairing broken areas.

CORE FILLERS							
Product	Hardener	Tg (°F)	Density (g/cc)	Compressive Strength (psi)	CTE (ppm/°F)	Shore Hardness	Description & Applications
CF 230	CF 234 H	131	0.58	4,350	17	65 D	Syntactic paste for edging honeycomb or cell densification for insert anchoring and repairs



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