## Ad-Tech Epoxy ES-215-IHG H

## Epoxy; Epoxide

Ad-Tech Plastic Systems Corp.

## Message:

ES-215 SERIES HIGH-TEMP SURFACE COATS were developed to meet the requirements of the aircraft and aerospace industry for use which demands higher temperature applications greater than 170°C/350°F. These surface coats have proven in tests that their compatibility with prepreg systems produce excellent surface conditions cured under heat and vacuum bagging. The thermo-cycling of these systems exhibit a great degree of high physical stability when used in tooling and composite fabrication. These systems are versatile in that they can be used in RHL and IHL heat environment applications. These qualities allow the fabricator a single system which will sustain both specifications in deference to using two different systems. These systems are hygienically safe for shop usage as they do not contain MDA OR VCHD. Use in conjunction with any ADTECH high-temp laminating resin.

General Information			
Features	Good Adhesion		
	Good Thermal Stability		
	Non-MDA Cured		
Uses	Aerospace Applications		
	Aircraft Applications		
	Coating Applications		
	Molds/Dies/Tools		
	Repairing Material		
Appearance	Amber		
	Black		
Forms	Paste		
Processing Method	Coating		
Physical	Nominal Value	Unit	Test Method
Apparent Density	1.23	g/cm³	ASTM D1895
Moisture Absorption	0.16	%	ASTM D570
Viscosity			
Hardener	50 to 60	mPa·s	
Resin	Thixotropic		
Compressive Strength - Ultimate	150	MPa	ASTM D965
Tack Free Time	5.0 to 6.0	hr	
Work Life	3.0 to 3.7	hr	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	88 to 90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4450	MPa	ASTM D638
Tensile Strength (Break)	34.0	MPa	ASTM D638
Flexural Modulus	2950	МРа	ASTM D790

Flexural Strength (Break)	58.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	190	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	194	°C	
1.8 MPa, Unannealed	187	°C	
CLTE - Flow	2.9E-5	cm/cm/°C	ASTM D696
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 1.0		
Hardener	Mix Ratio by Weight: 17		
	Mix Patio by Weight: 100		
	Mix Natio by Weight. Too		
Resin	Mix Ratio by Volume: 4.8		
Shelf Life			
1	52	wk	
<sup>2</sup>	100	wk	
Thermoset Mix Viscosity (25°C)	100000 to 150000	сР	ASTM D2393
Demold Time	960 to 1400	min	
NOTE			
	Resin in original nopened		
1.	container		
2	Hardener in original nopened		
۷.	Container		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

