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Advanced Materials

Epocast® 54-A/B

EPOXY LAMINATING SYSTEM

- High Strength
- Self Extinguishing
- Short Work Life

DESCRIPTION :

Epocast® 54-A/B epoxy laminating system is an unfilled, solvent-free, easy-to-handle product. It is self extinguishing and well suited for the manufacture and repair of composite structures. In addition to laminating applications, the epoxy system can be used for filament winding. Epocast® 54-A/B epoxy laminating system is qualified to AIMS 04-27-000-01.

TYPICAL PROPERTIES AS RECEIVED :

Property	54-A Resin	54-B Hardener	54-A/B System	Test Method
Color	Light Yellow	Straw	Amber	Visual
Density, g/cc.	1.19	1.05	--	ASTM-D-792
Viscosity, cP at 77°F (25°C)	9,000	400	8,000	ASTM-D-2196
Gel time, 100 gms at 77°F (25°C), min.	--	--	15-25	ASTM-D-2471

MIX RATIO :

To 100 parts by weight of Epocast 54-A resin, add 15 parts by weight of Hardener 54-B. Mix both components thoroughly for several minutes to insure a complete and uniform mixture. Mix only that quantity which can be applied within several minutes after mixing to avoid excessive exotherm.

CURE SCHEDULE :

Five days at 77°F (25°C) or two hours at 150-200°F (66-93°C) after room temperature gel. The system can be handled and machined after 24 hours at room temperature.

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TYPICAL CURED PROPERTIES (Not for specification purposes)

Test	Results	Test Method
Compressive Strength, 12-ply 7781 glass cloth, at 77°F (25°C), psi (MPa)	49,010 (338)	ASTM D695
Compressive Modulus, 12-ply 7781 glass cloth, at 77°F (25°C), Ksi (MPa)	3,399 (23,442)	ASTM D695
Flammability, 2-ply 7781 glass cloth, 60 sec., vertical		
Self Extinguish Time, sec.	0	FAR 25.853A
Drip Extinguish Time, sec.	0	
Burn Length, in. (cm)	3.5 (8.89)	

STORAGE :

Epocast® 54-A/B should be stored in a dry place, in the sealed original container, at temperatures between +2°C and +40°C (+35.6°F and 104°F). The product should not be exposed to direct sunlight. Under these storage conditions, and when supplied under Huntsman standard certification, this product has a shelf life of 1 year (expiration date may differ based on customer specification).

Material temperatures should be above 18°C (65°F) when mixing. After use, tightly reseal containers.

PRECAUTIONARY STATEMENT :

Huntsman Advanced Materials Americas LLC maintains up–to-date Material Safety Data Sheets (MSDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

First Aid!

Refer to MSDS as mentioned above.

KEEP OUT OF REACH OF CHILDREN

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Main Offices :
Huntsman Corporation
10003 Woodloch Forest Dr.
The Woodlands
Texas 77380
(281) 719-6000

Huntsman Advanced Technology Center
8600 Gosling Rd.
The Woodlands
Texas 77381
(281) 719-7400