

# SWANCOR 2513-A/BF

## Hand Lay-Up epoxy resin system specially suitable for wind blades



SWANCOR 2513- A/BF is designed for the process of hand lay-up(15°C-20°C) which is composed of particular epoxy resin and hardener. That is especially suitable for wind blade manufacturer's use. Their main characters are suitable viscosity, very short pot life, superior immersed effect at glass fiber and carbon fiber.

### Resin in liquid properties:

Items	SWANCOR 2513-A	SWANCOR 2513-BF	Standard or Method
Appearance	Light	Light Green	In Sight
Viscosity (cps,25°C/77°F)	2300~3200	20~60	LVT # 3/# 2-60rpm
Density ( g/cm <sup>3</sup> ,25°C/77°F)	1.1~1.2	0.9~1.0	
Flash Point (°C)	> 150	> 120	
EEw (g/mol)	175~190	----	
AMH (mg KOH/g)	----	580-645	
A/B ratio (weight)	100: 30		
Initial Mix viscosity (cps,25°C/77°F )	400~600		LVT # 2--60rpm
Gel time (mins, 20°C /100g)	20~35		

### Mechanical properties of condensate of epoxy resin

Items	SWANCOR 2513-A/BF	Standard or Method
Tensile Strength (Mpa)	70~85	ASTM D 638 or ISO 527
Tensile Modulus (Mpa)	3000~3700	ASTM D 638 or ISO 527
Elongation of Break (%)	>5	ASTM D 638 or ISO 527
Flexural Strength (Mpa)	123~145	ASTM D 790 or ISO 178
Flexural Modulus (Mpa)	3000~3700	ASTM D 790 or ISO 178
Tg (°C)	75~88	DSC 10°C/min
HDT (°C)	71~80	ASTM D 648 or ISO 75-2

\*Curing Process = Room Temperature(28 °C)4hrs + Post curing at 80 °C for 8hrs

### Packing , Storage and Handling precaution

1. SWANCOR 2513- A packed in 55 gallon barrel, weight 200kg, and packed in 5gallon barrel, weight 20kg per barrel.
2. SWANCOR 2513-BF packed in 55 gallon barrel, weight 150kg, and packed in 5 gallon barrel, weight 15kg per barrel.
3. The epoxy and hardener have to well mix by regular proportion for use.
4. After epoxy and hardener are mixed, it should be used in valid period, in case it gels and can't be use.
5. All implement for daubing and stowing should be cleansed right after used.
6. Under construction duration, should avoid skin contact, wear protective cloth and glove if necessary.
7. Crystallization will not occur above 15°C(59°F), if encounter, it can be undone by careful heating.

Quality Products with In-Time Service and Innovation

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