

SWANCOR 2513-A/BS

Hand Lay-up epoxy resin system
specially suitable for wind blades



Product Description

SWANCOR 2513-A/BS is designed for the process of hand lay-up which is composed of particular epoxy resin and hardener. It is especially suitable for wind blade manufacturing application. Its main characters are proper viscosity, short pot life, high HDT and better wetting out property to glass fiber and carbon fiber.

Properties

Item	2513-A	2513-BS
Appearance	Transparent clear liquid	Light yellow clear liquid
Viscosity(25°C, cps)	2300~3200	20~60
Density(25°C, g/cm ³)	1.1~1.2	0.9~1.0
Flash point(°C)	>150	>90
A/B ratio(weight)	100:30	
Initial Mix Viscosity (25°C, cps)	400~600	
Gel Time(min.) (30°C/100g)	25~40	

Packing , Storage and handling precaution

1. SWANCOR 2513-A packed in 55 gallon barrel, weight 200kg per barrel and packed in 5 gallon barrel, weight 20kg per barrel.
2. SWANCOR 2513-BS packed in 55 gallon barrel, weight 200kg per barrel and packed in 2.5 gallon barrel, weight 4.8kg per barrel.
3. The epoxy resin and hardener have to be well mixed by regular proportion for use.
4. After epoxy resin and hardener are being mixed, it should be used in valid period, in case it gels and can't be used.
5. All implement for daubing and stowing should be cleansed right after use.
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.

Typical property of 3.2mm clear casting

Item	2513-A/BS	Test Method
Tensile Strength(Mpa)	70~85	GB/T 2568-05/ASTM D638/ISO 527
Tensile Modulus(Mpa)	2900~3600	GB/T 2568-05/ASTM D638/ISO 527
Elongation of Break (%)	>5.0	GB/T 2568-05/ASTM D638/ISO 527
Flexural Strength(Mpa)	120~145	GB/T 2570-05/ASTM D790/ISO 178
Flexural Modulus(Mpa)	3100~3700	GB/T 2570-05/ASTM D790/ISO 178
Tg (°C)	75~85	DSC test, 10°C/min
HDT (°C)	70~76	GB/T 1634.2-04/ASTM D648/ISO 75-2

*Curing condition: 24 hrs at room temperature+ post cure at 80°C for 8hrs