

SWANCOR 2503-A/B



Hand Lay-Up epoxy resin system specially suitable for tooling products

Product Description

SWANCOR 2503- A/B is designed for the process of hand lay-up, which is composed of particular epoxy resin and hardener. It is especially good for application in yachts or large parts tooling manufacturing. Its main characteristics are suitable viscosity, short pot life, superior impregnation with glass fiber and carbon fiber.

Resin in liquid properties

Items	2503-A	2503-B	Standard or Method
Appearance	Light	Light	In Sight
Viscosity (cps,25°C/77°F)	1100~1600	10 ~40	LVT # 4/# 1-60rpm
Density (g/cm ³ ,25°C/77 °F)	1.1~1.2	0.87~0.97	
Flash Point (°C)	> 150	> 120	
Shelf Life (Month)	24	24	NA
A/B ratio (weight)	100: 25±2		
Initial Mix viscosity (cps,25 °C/77°F)	370~470		LVT # 3-60rpm
Exothermic peak Temperature (°C)	< 190		
Exothermic peak time (30°C/ 100g, mins)	> 140		

Mechanical properties of resin casting

Items	2503-A/B	Standard or Method
Tensile Strength(Mpa)	75-90	ASTM D 638 or ISO 527
Tensile Modulus(Mpa)	2900-3400	ASTM D 638 or ISO 527
Elongation of Break(%)	>4	ASTM D 638 or ISO 527
Flexural Strength (Mpa)	130-150	ASTM D 790 or ISO 178
Flexural Modulus(Mpa)	2800-3400	ASTM D 790 or ISO 178
Tg (°C)	95-110	DSC 10°C/min
HDT (°C)	105-115	ASTM D 648 or ISO 75-2

Curing Process = Room Temperature(28 °C)16hrs + Post curing at 80 °C for 8hrs.

The data presented herein are believed to be accurate and reliable. We require customers to inspect and test our product before use and to satisfy themselves as to contents and suitability for their specific applications. Information herein is to assist customers in determining whether our products are suitable for their applications but not to be taken as a guarantee, express warranty or implied warranty of merchantability or fitness for particular purpose, nor is any protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is limited to replacement of our material and in no event shall we be liable for special, incidental or consequential damages.

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Packing , Storage and Handling precaution

1. SWANCOR 2503- A packed in 265 gallon barrel, weight 1000 kg per barrel and 55 gallon barrel, weight 200 kg per barrel and packed in 5gallon barrel, weight 20 kg per barrel.
2. SWANCOR2503- B packed in 265 gallon barrel, weight 900 kg per barrel and 55 gallon barrel, weight 180 kg per barrel and packed in 2.5 gallon barrel, weight 9kg 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.

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