

SWANCOR 2713-A/BR/BF/BS/BL

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



SWANCOR 2713-A/B is designed for the process of hand lay-up which is composed of particular epoxy resin and hardener. That is especially suitable for marine and other large structure use. Their main characters are suitable viscosity, moderate pot life, superior immersed effect at glass fiber and carbon fiber.

Resin in liquid properties:

Items	SW 2713-A	SW 2713-BR	SW 2713-BF	SW 2713-BS	SW 2713-BL
Appearance	Light	Light Green	Light Green	Light Green	Light Green
Viscosity(cps,25°C /77°C)	2,300~3,200 (LVT#4-60rpm)	65~100 (LVT#1-60rpm)	50~90 (LVT#1-60rpm)	20~60 (LVT#1-60rpm)	5~19 (LVT#1-60rpm)
Flash Point(°C)	>150°C	>120°C			
Density(g/cm ³ ,25°C/77°C))	1.1~1.2	1.0~1.1	1.0~1.1	1.0~1.1	1.0~1.1
A/B ratio(weight)	100:30				
Initial Mix viscosity(cps,25°C /77°C)		800~1,000 (LVT#3-60rpm)	750~950 (LVT#3-60rpm)	400~600 (LVT#3-60rpm)	300~500 (LVT#3-60rpm)
Exothermic peak time (mins,25 °C, 60%rh /100g)		10~30	25~40	35-55	300~370

Mechanical properties of condensate of epoxy resin:

Items	2713-A/ 2713-BR	2713-A/ 2713-BF	2713-A/ 2713-BS	2713-A/ 2713-BL	Standard or Method
Tensile Strength (Mpa)	80~95	70~85	70~85	70~85	ASTM D638 / ISO527
Tensile Modulus (Mpa)	3,200~3,800	2,800~3,700	2,800~3,700	2,800~3,400	ASTM D638 / ISO527
Flexural Strength(Mpa)	143~161	128~146	128~146	105~123	ASTM D790 / ISO 178
Flexural Modulus(Mpa)	3,300~3,900	2,900~3,700	2,950~3,700	3,200~3,800	ASTM D790 / ISO 178
Elongation of Break(%)	>5	>5	>5	>5	ASTM D638 / ISO527
Tg(°C)	85~100	77~92	80~95	70~85	ASTM D3418/ISO11357-2
HDT(°C)	82~93	77~87	78~88	68~79	ASTM D648 / ISO 75-2

*Curing Process = Room Temperature(28°C)24hrs + Post curing a t 80°C for 8hrs

Packing, Storage and Handling precaution

- SWANCOR 2713-A** packed in 265 gallon barrel, weight 1000kg, or packed in 55 gallon barrel, weight 200kg per barrel.
- SWANCOR 2713-BR**、**2713-BF**、**2713-BS**、**2713-BL** packed in 265 gallon barrel, weight 900kg, or packed in 55 gallon barrel, weight 150kg per barrel.
- The epoxy and hardener have to well mix by regular proportion for use.
- After epoxy and hardener are mixed, it should be used in valid period, in case it gels and can't be use.
- All implement for daubing and stowing should be cleansed right after used.

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 form 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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6. Under construction duration, should avoid skin contact, wear protective cloth and glove if necessary.

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