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CRR-100 (Carbon Fiber Resin) Product Data Sheet

Description of the Product

Carbon Fiber Epoxy Resin CRR-100 is a reinforcing epoxy resin which can increase the performance of carbon fiber with the outstanding resistance to chemical and water. It is suitable for structural reinforcement as it offers a compelling adhesion performance on concrete and carbon fiber sheet.

Method and Sequence of Use

1. **To Mix Carbon Fiber Epoxy Resin CRR-100**

For immediate use, mix Carbon Fiber Epoxy Resin CRR-100 with its hardener at the 2:1 (by weight) ratio in a container and mix with the electric mixer for about 3-4 minutes until the mixture is in uniform color.

2. **To apply Carbon Fiber Epoxy Resin CRR-100**

O nce mixed, place Carbon Fiber Epoxy Resin CRR-100 in a container. Apply uniformly using rollers or brushes to the surface. Ensure that no air bubbles or pockets are created on the surface during application. Fix the carbon fiber sheet over the surface within 30 minutes to 2 hours (depending on the temperature at the workshop) of an application before the epoxy resin is hardened.

The standard amount of use of Carbon Fiber Epoxy Resin CRR-100 is as follows:

1) Carbon Fiber Sheet's unit weight 200g/㎡: 0.6~0.8Kg/㎡ (for single ply application)

2) Carbon Fiber Sheet's unit weight 300g/㎡: 0.7~0.9Kg/㎡ (for single ply application)

Caution

*When working with the product, wear protective equipment such as helmets, protective glasses, gloves and work clothes.

*Immediately wipe off the product on the skin and wash the affected area with a cleaner.

*Clean any tools or equipment that has been used with solvent or thinner.

*Ventilate when working in a confined space to bring in the fresh air.

*If the product is on your skin and it irritates your skin, consult with a physician.

*When the temperature is below 5C^{o}, raise the temperature of the product (by placing it in boiling water) to obtain the desired pot life.

*Use the product wisely bearing in mind that the pot life of the chemical fluid is shortened at the humid and hot environment. On the contrary, it is prolonged when the temperature is low.

The Characteristic and Kind of Carbon Fiber Resin

Name of goods		**CRR-100(N)**	**CRR-100(S)**	**CRR-100(W)**
APPLICATION TEMPERATURE (℃)		15~20	25~35	5~15
POT LIFE (Min.)	@30℃	-	45	-
	@20℃	45	-	-
	@10℃	-	-	45
DRYING TIME (HOUR)	@23℃	IN LESS THAN 11 HOURS	IN LESS THAN 15 HOURS	IN LESS THAN 9 HOURS
CURING TIME(DAY)	@30℃	-	7	-
	@20℃	7	-	-
	@10℃	-	-	14
RESIN : HARDNER (WEIGHT)		2:1	2:1	2:1
VISCOSITY(CPS)	@20℃	5,000	7,000	4,000
SPECIFICATION		STANDARD	FOR SUMMER USE	FOR WINTER USE

Technical Data

	CRR-100
Tensile property / Yield strength	8500psi
Elastic Modulus	3300MPA
Compressive strength	90MPA
Shear strength by tensile loading	1000psi