

Epoxy Glue for carbon fiber fabrics

Product Code:BT-606

Products Description:

BT-606 is Epoxy Carbon fiber fabric glue. Can be used for the effective penetration bonding between many substrate materials such as concrete, steel material, ceramic, stone, wood component and different kind of fiber fabrics such as carbon fiber, glass fiber, basalt fiber, aramid fiber. It is mainly used for the strengthening and reinforcement for buildings.

Characteristic:

1. Good compatibility with carbon fiber
2. Strong penetration, good infiltrate into the concrete surface
3. Aging, water resistance and chemical corrosion resistance, excellent performance
4. The adhesive layer has excellent physical mechanical properties after curing, strong toughness and a certain degree of elasticity.

Technical Parameter:

Clause	Testing Items	Value
Appearance	Component A	@25°C ≤1000 mpa.s Transparent
	Component B	@25°C ≤1000 mpa.s Translucent red
	Mixture Viscosity	@25°C ≤1000 mpa.s
	non-volatile content	≥99%
Operation	Mixture ratio by weight A:B	2:1 (20kg:10kg)
	Operate Time (@ 30°C)	30 mins.
	Finger touch dry time (@ 30°C)	1.5 hours
Mechanical properties	Tensile Strength	≥38 MPa
	Modulus under Tensile	≥2.4×10 ³ MPa
	Elongation at break	≥1.5%
	Bending Strength	≥50MPa
	compressive strength	≥70MPa
	adhesive strength against Cement Concrete	≥2.5MPa Break in Concrete inside

Detail processing

1. Component Base Treatment: the use of angle grinder, sandpaper and other tools to remove the concrete surface of the floating slurry, oil and other impurities, the component base surface of the concrete to be polished and smooth, and the use of structural repair glue (BT-605) to the larger holes, concave, dew and other defects to repair, recovery; for sections of the difference, the inner corner of the part should be wiped into a smooth

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surface; for the edges of the construction section shall be polished to rounded corners with a circular radius of not less than 25mm. Clean the surface of the concrete with a hairdryer and keep it dry.

2. Material preparation: Cut according to the design size of carbon fiber cloth (CUD type), which is strictly prohibited folding, if the original crease of carbon fiber cloth, should be cut it. According to the requirements and Ratio to mix the epoxy resin(BT-606), with electric stirrer evenly stirred.

3. Paste Carbon Fiber Cloth(CUD): the preparation of carbon fiber adhesive evenly applied to the paste site of the concrete surface, the cut carbon fiber cloth in accordance with the placement of carbon fiber adhesive coated concrete surface, carbon fiber cloth should be fully flat, no folds, with a special roller along the direction of carbon fiber cloth for many times rolling, So that the plastic liquid fully impregnated carbon fiber cloth. (when pasting multi-layer carbon fiber cloth, please paste the next layer immediately when the glue liquid on the surface of carbon fiber cloth reaches the dry state; If the delay time exceeds 1h, please wait for 12h before you can repeat the above steps to paste, but before pasting should be the carbon fiber cloth adhesion surface of the ash wipe clean the last layer of carbon fiber cloth paste finished, A carbon fiber adhesive should be painted evenly on its surface. If the carbon fiber cloth needs to lap, its force direction each end lap cloth should not be less than 200mm.

4. Curing maintenance: 24 hours after the completion of the construction to prevent rain or damp, and pay attention to protect, to prevent the construction surface of hard objects. When the average temperature is 20~25°C, the curing time must not be less than 3 days, and the average temperature is 10 °C, the curing time shall not be less than 7 days.

5. Inspection: The actual adhesion area of carbon fiber cloth should not be less than the design area, the position deviation should not be greater than 10mm. The bonding quality between CFRP and concrete can be examined by tapping the small hammer lightly or by hand-pressed carbon fiber cloth surface, and the total effective bonding area should not be less than 95%. When the empty drum area of the carbon fiber cloth is not larger than the 2500PX2, repairing can use the method of injecting glue.

6. Repair: When the empty drum area is larger than 2500px2, it is advisable to remove the carbon fiber cloth from the drum part, and then overlap the carbon fiber sheets, and the lap length should not be less than 100mm. If necessary, the positive tensile test can be used for on-site sampling inspection of construction quality. In the production process of epoxy adhesive products, the performance of the product is influenced by many factors, such as design, engineering, environment, and so on. Therefore, the user needs to test, trial and verify before choosing and using adhesive products.

Points for Attention:

1. The construction workers should take necessary productive measures (such as wearing masks, gloves, goggles, etc). Fire prevention and maintain good ventilation on scene
2. When the rolled products are united, the plate has the possibility of bounce, please give full attention.
3. Carbon plate is conductive, be careful the electrical equipment around.

Storage:

Epoxy adhesive is not stable, should be stored in a cool, ventilated indoor, to avoid fire, away from the heat source and the radiation source, keep the container sealed, waterproof sunscreen, should be separated from oxidant, acid, alkali. In accordance with the requirements of the packaging, transportation, storage, storage period is 18 months, such as storage temperature is higher (not more than 30 degrees Celsius), the storage period shall not exceed 12 months