



FSC

| Carbon Fiber Fabric



FIDTRONG's FSC Carbon Fiber Fabric, woven from strong 12k or 24k carbon fiber yarns, provides high strength and rigidity, suitable for many structural uses. Its features like corrosion resistance, flexibility, and dimensional stability add to its effectiveness. Its durability makes it a sustainable choice in construction.

Specifications

Fabric weight	from 100 g/m ² to 800 g/m ² as requirement	 
Roll length	50 m or 100 m or cut to size	
Roll width	100 / 200 / 300 / 600 mm depending on type	
Tensile Strength (fiber yarn)	>4900MPa	
Tensile Modulus (GPa)		>240
Elongation		>1.7%

The commonly offered specifications

Item	Tensile Strength (Fiber Yarn)	Tensile Strength (Fabric)	Elongation	Length/Roll	Widths
FSC200	>5500MPa	>4000MPa	>1.7%	100 meter/roll	10/20/30/50cm
FSC230	>5500MPa	>4000MPa	>1.7%	100 meter/roll	10/20/30/50cm
FSC300	>5500MPa	>4000MPa	>1.7%	100 meter/roll	10/20/30/50cm
FSC530	>5500MPa	>3800MPa	>1.7%	50 meter/roll	30/50cm
FSC600	>5500MPa	>3800MPa	>1.7%	50 meter/roll	30/50cm

Process Steps



Surface Preparation



Layout and Line Positioning



Epoxy preparation



Carbon Fiber Installation



Consolidation and Curing



Finishing and Surface Protection



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FSE-322

| Carbon Fiber Fabric Impregnated Epoxy

Our FSE 322 Impregnating Epoxy is a low viscosity adhesive with excellent impregnation properties and a desirable thixotropic nature. Specifically designed for impregnating and pasting reinforced component surfaces and fiber products, it serves as a crucial adhesive in CFRP systems.



Properties

Packaging	30kg/set, 15kg/set, 6kg/set, 3kg/set
Color	light milk or yellow
Shelf Life	18 months (4 °C ~ 32 °C)
Mix Ratio	A:B = 2:1 by weight
Service Temperatures	+5 °C min. / +40°C max.
Operable time	>40 minutes
Tacky Dry Time (25°C)	1.5 hours
Curing Time (25°C)	3~7 days
Tensile strength	≥40 MPa
Ultimate elongation	≥1.5 %
Elastic modulus	≥2400 MPa
Compersive strength	≥70.0 MPa
Steel-steel Bonding Strength	≥40 MPa
Steel-steel tensile shear strength	≥14 MPa
Steel-concrete tensile strength	>2.5 MPa (C60 concrete damage)

Transportation and storage

Storage – Store in a dry, clean space with temperatures between -5°C and 40°C. Do not expose to direct sunlight or rain. Keep components A & B separate. If stored at room temperature (25°C), its shelf life is 18 months. If exceeded, test before use.

Transportation – These products are safe, non-flammable, and non-toxic. They can be transported like general cargo. Ensure epoxy containers are not damaged or exposed to sunlight or rain, and are not tilted or stored upside-down during transport.