

## EPOXY RESIN FOR CARBON PLATE

Epoxy resin is commonly used as both a matrix material and adhesive for carbon fiber composites. It serves a dual purpose by providing the bonding strength between layers of carbon laminates as well as acting as a matrix to encapsulate and reinforce the carbon fibers.

Epoxy resin serves as the adhesive material that strongly bonds the carbon fiber laminates to strengthen and reinforce composite application in bridge, beams, column, panels, and other civil construction.

### Technical Data Sheet:

<b>APPREARANCE</b>	Component A: White putty	Operable time (min) (25°C)	>30
	Component B: Brown viscous liquid	Mixing Ratio (weight)	3:1
	<b>ITEM</b>		<b>INDEX</b>
<b>COLLOIDIAL PERFORMANCE</b>	Tensile strength (MPa)		≥30
	Tensile elastic modulus (MPa)		≥3.5×10 <sup>3</sup>
	Elongation (%)		≥1.3
	Bending strength (MPa)		≥45
	Compressive strength (MPa)		≥65
<b>ADHESION PERFORMANCE</b>	Steel-steel tensile anti-shear strength (MPa)		≥15
	Steel - steel uneven tear strength (kN / m)		≥16
	Steel – steel adhesion strength (MPa)		≥133
	Pulling adhesion strength along with concrete (MPa)		≥2.5
Non-volatile matter content (solid content) (%)			≥99.5

**COMMENTS:** We do customized production as per projects requirement. Customized packing are also available.

