

Zepoxy CWB is high-performance epoxy system designed for wind blade composites, offering superior mechanical strength, high Tg, durability, and excellent adhesion. Its optimized formulation ensures enhanced fatigue resistance, long-term stability, and lightweight performance, making it ideal for modern wind energy applications where reliability, efficiency, and sustainability are critical.

PROPERTIES

- ✓ Excellent Mechanical Strength
- ✓ High glass transition temperature
- ✓ Suitable viscosity for impregnation
- ✓ Good Fatigue Resistance
- ✓ Thermal Stability
- ✓ Optimized Curing Profile

TECHNICAL DATA

Property	Test Method	Result
Appearance Part A	Visual	Medium viscosity, clear liquid
Appearance Part B	Visual	Low viscosity, clear liquid
Mix ratio (Part A: Part B)	Theoretical	100 : 20
*Mix viscosity @ 25°C	ASTM D 2196	300 - 500 cPs
*Flash Point	ASTM D 93	>117°C
*Pot life (300g mix) @ 25°C	-	90 - 120 min
*Demolding time @ 25°C at 3mm	-	10 - 12 hours
*Hardening time	-	24 hours
*Full Cure	-	7 days
*Hardness (Shore D)	-	75 - 78
*Flexural Strength (MPa)	ASTM D 790	95 - 100
*Compressive Strength (MPa)	ASTM D 695	110 - 120

*Typical results under laboratory conditions.

PROCESSING CONDITIONS

After mixing in the recommended ratio, use **Zepoxy CWB** to impregnate reinforcements such as glass, aramid, or carbon fibers. To achieve the required temperature resistance and optimal mechanical properties, a post-curing process is essential: 12–36 hours at room temperature, followed by 2 hours at 80°C and 4 hours at 100°C. Processing at a minimum of 20°C ensures an excellent curing start of the **Zepoxy CWB** system.

MIXING

The mixing ratio must be accurately followed to achieve perfect results. It is not possible to change the ratio which would result in the epoxy not drying properly and lower mechanical properties. Pour the hardener first and then the resin. The mixed components should be thoroughly mixed for 3-4 minutes to ensure an even consistency. To avoid development of bubbles slowly mix for 5-10 mins.

PACKAGING

Zepoxy CWB is available as follows:

1.2 KG Sets	Part A 1 KG Part B 200g
12 KG Sets	Part A 10 KG Part B 2 KG
36 KG Sets	Part A 30 KG Part B 6 KG

HEALTH AND SAFETY

Dispose containers of the materials as per local laws, rules, and regulations. Use gloves, safety masks and other safety apparel as per health and safety laws. For further assistance, please refer to the MSDS of the product for further health and safety information.

STORAGE

At 22-30°C & humidity < 50%