

Epoxy Adhesive CFL

Adhesive for Bonding Carbon Fiber Laminates

Description	A solvent - free, epoxy resin, thixotropic two components adhesive mortar.
Where to use	• Where to use Structural adhesive: • CFRP Laminates to concrete and timber. • Concrete elements, Bricks & Masonry. • Steel plates to concrete .
Advantages	• Solvent - Free, Non – Sag • High mechanical strength. • High abrasion, shock resist. • Rapid Curing. • Shrinkage - free. • Good temperature resistance.
Properties	
Density	1.7 ±0.1 Kg/L
Pot life @ 23 °C	30 minutes
Modulus of Elasticity	12.8 x 103 N/mm ²
Bond Strength	4 N/mm ²
Compressive Strength	>60 N/mm ²
Tensile Strength	30 - 35 N/mm ²
Shear Strength	15 - 20 N/mm ²
Surface Preparation	• Substrates should be clean, dry and free from oil, grease and laitance. • Substrates should be prepared with sand blasting or mechanical grinding. • Concrete adhesive strength should not be less than 1.5 N/mm² and max. surface moisture is 10%.
Mixing	• Stir materials well in its original containers. • Add Component (B) to component (A) and mix for 2 - 3 minutes with an electric mixer until homogeneous mix is obtained.
Application	• The material is applied with a trowel, spatula or float to both concrete, timber or steel and CFRP laminates with thickness (0.5 – 2 mm). • The adhesive should be even and leave no cavities or voids. • Press the laminates evenly on the surface until the material is forced out the sides. • The loads are tapped with a hammer for cavities. • Check both curing rate and final strength, tests taken at site for testing.
Theoretical coverage	• width 50 - 150 mm 350 -1250 gm. /L.M. • It varies depending on thickness, surface roughness and width of carbon laminates.
Packaging	5 & 20 Kg (A+B) Cans
Shelf life & Storage	12 months in its original unopened packs stored in appropriate conditions .
Cleaning	All tools must be immediately cleaned with Prokem Solvent
Health and Safety	• Use gloves when handling chemical products. • Apply forced ventilation in confined spaces. • Eye splashes to be washed with plenty of water.
Additional Information	PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure. PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction, PROKEM reserves the right to change the properties of its products. All orders are accepted subject to our current term of sale & delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request. PROKEM extends technical services to include after sales support to assist users in a proper handling of our products.