



Quality beyond Innovation

## Philippine SkyBird Industrial Corp.

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# ULTRABOND CFE

## Carbon Fiber & Plate Primer and Binder

### DESCRIPTION

**UltraBond CFE** is two component epoxy resin that can be used to bond carbon fiber and carbon plate for wrapping and strengthening of areas such as columns and beams of load bearing structures specifically where improvement to shear strength and deformation properties are required.

### USES

**UltraBond CFE** adheres to most surfaces after proper preparation. to be used to bond carbon fiber for wrapping and strengthening of areas such as columns and beams of load bearing structures specifically where improvement to shear strength and deformation properties are required.

### ADVANTAGES

High elastic modulus versatile	Effective of stresses at bond interface.
Excellent adhesion	concrete and steel
Pre-proportioned	Avoids batching errors of resin system. Minimizes wastage.

### PERFORMANCE DATA

*Typical of filled system after 7 days cure*

Compressive strength	:	70 N/mm <sup>2</sup>
Flexural strength	:	30 N/mm <sup>2</sup>
Bond strength	:	2.5 N/mm <sup>2</sup> (Failure in concrete)

### PROPERTIES

Supply form	Liquid
Mix ratio	(A:B) by volume 2:1
Color	Amber
Density	1.1+/-0.01 kg/L
Pot life at 25°C	30 mins.

### SURFACE PREPARATION

Correct substrate preparation is critical for optimum performance. Surfaces should be structurally sound, clean, and free from loose particles, oil, grease, or any other contaminants.

Steel surfaces should be grit blasted to white metal. Surface which show any traces of oil must be degreased with a chemical degreaser prior to grit blasting. Surfaces should be totally dry. For concrete structures, any sharp edges of the section should be rounded off. Surface cracks, pinholes, potholes and localized undulation should be repaired with PowerFixEPP prior to the application.

### MIXING

Individually stir each component. Base and hardener of **UltraBond CFE** to homogenous state prior to combining. Add hardener to base, mix for 3 minutes with a slow speed drill machine with paddle, until a uniform mix is achieved.

If part mixing is necessary, stir individually and then measure out each component precisely in the proper volumetric ratio. Ensure that the remaining contents of each container are not contaminated.

### APPLICATION

Place the mixed material within its pot life.

**UltraBond CFE** can be applied by roller or nylon brush. Roller working the **UltraBond CFE** into the surface to ensure total absorption. Care must be taken to ensure the required application rates or coverage are achieved.

### CURING

**UltraBond CFE** is self-curing. Curing time depends upon the ambient temperature. Achieves full cure in 7 days.

### CLEANING

Clean all tools and equipment with water before the material sets.

### ESTIMATING DATA

The consumption of **UltraBond CFE** depends on the quality and porosity of substrate.

### PACKAGING

**UltraBond CFE** is available in 3.8 liter set

### GENERAL INFORMATION

Shelf Life 12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature/humidity may reduce shelf life.

### CLEANING

Clean all equipment and tools with water immediately after use.

### HEALTH and SAFETY

Gloves, goggles & suitable mask must be worn.

### TECHNICAL SERVICE

**Philippine SkyBird Industrial Corporation** Services are available on request for on-site support to assist in the correct use of its products.

