



Quality beyond Innovation

Philippine SkyBird Industrial Corp.

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ULTRABOND RB

Solvent free epoxy resin binder

DESCRIPTION

UltraBond RB is two components, solvent-less epoxy resin that can be used to produce a range of epoxy resin mortars for different applications. The resin system is formulated to bond to both dry and damp surface.

USES

UltraBond RB adheres to most surfaces after proper preparation. It is recommended to be held always in stock as a general purpose epoxy system that can be used with suitably graded fillers for a variety of unforeseen applications that arise on sites frequently, such as;

- bonding fresh concrete to set concrete especially at construction joints.
- Bonding cementitious repair mortars or steel to concrete or mortar substrates.
- grouting of anchor bolts, dowels, etc.
- rapid repairs to structural concrete.
- patch repairs to floors, stair case noses, walls, etc.

ADVANTAGES

High elastic modulus versatile	Effective of stresses at bond interface.
Excellent adhesion	Renders the bonded parts monolithic. Minimizes water ingress through cold joints.
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 ²
Flexural strength	: 30 N/mm ²
Bond strength	: 2.5 N/mm ² (Failure in concrete)

CHEMICAL RESISTANCE

Resists most common organic and inorganic acids in diluted form, alkalis, oils, grease, fuels, water, etc. Chemical resistance depends on the chemicals involved, their concentrations, temperature and degree of exposure. Good housekeeping practices such as immediate clean-up of all spillages will greatly extend the service life.



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.

Remove oil grease and wax contaminants by scrubbing with industrial grade detergent or degreasing compounds followed by mechanical cleaning.

Cement laitance, loose particles, mold release agent, curing membrane, and other contaminants must be removed from the surface by wet grit blasting, high pressure water jetting (approximately 150 bars) or by other effective methods.

Make other necessary preparations specific to the type of application.

MIXING

Mechanical mixing is necessary. A slow speed (600rpm) drill, fitted with a helical or a rod type paddle depending on the filler content, is recommended.

Remove the rims from tins to ensure all of each component is used. Stir individually and then pour out the entire contents of Part A and Part B into a clean, dry pail for subsequent mixing. Avoid part mixing to prevent batching errors.

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.

PLACING

Place the mixed material within its pot life.

Note: Pot life given above is for the mixed resin system. For the filled material, it depends upon the quantity mixed.

UltraBond RB can be applied by brush or roller; paste and mortar by trowel; fluid grout and flowable mortar by pouring and stiff mortar by trowel followed by ramming with a rod.

CURING

UltraBond RB is self-curing. Curing time depends upon the ambient temperature, quantity mixed and placed and the filler proportion. Filled mortar hardens within 24 hours @ 25°C, and achieves full cure in 7 days.

CLEANING

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

ESTIMATING DATA

The consumption of **UltraBond RB** depends on the type of application and on the quality of substrate surface.

PACKAGING

UltraBond RB is available in 3.8 kg 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 Corp. Services are available on request for on-site support to assist in the correct use of its products.