



# ULTRA CORR-BOND

## Epoxy For Portland Cement Bonding Agent Steel Reinforcement Protection

### Admixtures

**ULTRA CORR-BOND** is a two part bonding agent composed of a specialty solvent-free epoxy resins containing pigments and fine fillers.

### Surface Treatments

**ULTRA CORR-BOND** provides an extended open time allowing for placement of concrete toppings and repair mortars up to 24 hours later (Depending upon temperature). This product also provides significant protection against steel reinforcement corrosion when applied to properly prepared rebar.

### Protective Coatings

### Concrete Repairs

### Industrial Flooring

### Grouts & Anchors,

### Adhesives,

### Water Proofing

### Sealants

#### PRIMARY APPLICATIONS

- Bonding agent for floor toppings and concrete repair
- Bond coat for concrete repair mortars
- Corrosion protection for steel reinforcement
- Exterior and interior concrete
- Parking and bridge structures
- Marine structures
- Retaining and parapet walls

#### FEATURES/BENEFITS

- Excellent adhesion to concrete and steel
- Allows flexibility in topping placement, including traffic from ready mix trucks when tack free
- Bonding agent plus corrosion protection-one product does both
- Non-vapor barrier for slab on grade applications
- Easy to mix and apply
- Allows bonding agent Application before forming of vertical and overhead repairs

**Weather-o-meter Testing,** (ASTM G 93), 2000 hours no cracking or peeling over steel

**Shelf Life:** 1 year in original, unopened package.

#### PACKAGING / YIELD

**ULTRA CORR-BOND** is available in 2.5/kg pack. A pack consists of Part A (white base), Part B (green hardener).

#### Appearance

When mixed and placed per directions, the product has a cementitious coating appearance with a dark green color.

#### TECHNICAL INFORMATION

Typical Engineering Data @ 70°F (21°C)

**Consistency:** brush-able coating

**Pot Life:**..... 5-7 hrs

**Initial Hardness** 48 hrs

**Full Cure** 7 days

**Maximum Overlay time** 24 hrs @ 20° C.

**Compressive Strength (ASTM C 882) (psi 7000) 50 N/mm<sup>2</sup>**

**Tensile Strength psi 2900 (ASTM-C 882) (20 N/mm<sup>2</sup>)**

**Flexural Strength psi 5000 (ASTM-C 882) (35 N/mm<sup>2</sup>)**

**Shear Bond Strength psi 3600 (ASTM-C 882) (25 N/mm<sup>2</sup>)**

#### DIRECTIONS FOR USE

##### Surface Preparation:

**Bonding-**New concrete must be clean and well textured prior to use of **ULTRA CORR-BOND**.

Remove all curing compounds and form release agents.

Old concrete must be clean and rough. All oil, dirt, debris, paint and unsound concrete must be removed.

The surface must be prepared mechanically using a scabblor, bush-hammer, shot-blast or other suitable equipment which will give a surface profile of a minimum 1/8" (3 mm), exposing the coarse aggregate of the concrete. The final step in cleaning should be the complete removal of all residues.

**Substrate surface should be dry for maximum bond strength. In warmer climates, the substrate may be Saturated Surface Dry (SSD). (Caution: Do not apply over any standing water.)**

#### SPECIFICATIONS / COMPLIANCES

**COVERAGE For Concrete** (3-3.5.0 m/kg)

**Note:** Application coverage rate is highly dependent on surface profile.

**Application Maximum Temperatures Open Time\***  
120°F (45°C) 5 hours  
95°F (35°C) 12 Hours  
68°F (20°C) 24 Hours

\*If the time limit is exceeded, a fresh coat of **CORRBOND** must be applied before placement of the repair mortar.

\*If the **ULTRA CORR-BOND** becomes wet before the repair mortar topping is placed (rain, flooding, etc.), it must be



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completely removed and a fresh coat applied to the substrate.

**Corrosion Protection**-For maximum corrosion protection, steel reinforcement must be cleaned to white metal. Preparation methods include wire wheel cleaning.

**Mixing**-Pre-shake Part A before combining Part A with Part B. Add the entire container of Part B to all of Part A. Mix with a mechanical (drill) mixer for 2-3 minutes until uniform. A mortar mixer may be used for large jobs.

### **Application:**

**Bonding**-Substrate and ambient temperatures must be between 40°F (5°C) to 120°F (45°C) and the material temperature should be between 65°F (18°C) to 95°F (35°C) for best results. ULTRA CORR-BOND is applied by stiff bristle broom or paint brush at an even coverage.

For large areas, a mechanical scrubber is recommended. Final film thickness must be a minimum of 200Microns. Fresh concrete or repair mortar must be placed over ULTRA CORR-BOND within the maximum allowable time.

**Corrosion Protection**-For maximum protection of steel reinforcement, apply ULTRA CORR-BOND in two coats, with each coat brushed on at 3.-3.50.0 m<sup>2</sup>/kg). After the first coat is placed, allow to dry tack free before the second coat is placed. Total film thickness must be a minimum of 40 mils. Care should be taken to ensure the steel is completely coated. Fresh concrete or mortar must be placed over the ULTRA CORR-BOND within the maximum allowable time.

### **CLEAN-UP**

Clean tools and equipment with Ultra Solvent before material dries.

### **P R E C A U T I O N S / L I M I T A T I O N S**

- For best results, place at ambient and material temperatures of 60°F (15°C) to 95°F (35°C). Material temperature should be between 65°F (18°C) to 85°F (29°C).
- Maximum open time before material placement is 24 hours at 68°F (20°C) and 12 hours at 95°F (35°C).
- Keep from freezing during Storage.

### **Storage:**

Avoid to place direct to sun light and always store in shady areas.

### **ISO Certification:**

Our production facility at Pakistan is  
ISO 9001:2008  
ISO 14001:2004  
by BUREAU VERITAS  
and UKAS Management

**WARRANTY:** The Ultra Chemicals LLC. ("Ultra") solely and expressly warrants that its products shall be free from defects in materials and workmanship for 12 months from the date of purchase. Unless authorized in writing by an officer of Ultra, no other representations or statements made by Ultra or its representatives, in writing or orally, shall alter this warranty. ULTRA MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Ultra product fails to conform to this warranty, Ultra will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Ultra does not authorize anyone on its behalf to make any written or oral statements which in any way alter Ultra's installation information or instructions in its product literature or on its packaging labels. Any installation of Ultra products which fails to conform to such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Ultra's products for the Buyer's intended purposes.

### **Regional Sales Office**



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