



**ULTRA BOND MICRO CONCRETE EX 310**  
**CEMENTITIOUS MICRO CONCRETE FOR**  
**STRUCTURAL REPAIR**



**DESCRIPTION**

EX 310 is a ready to use dry powder which requires only addition of clean water at site to produce a free flowing non shrink repair micro concrete. It is composed of good quality cement, properly selected aggregates & additives. It is used & designed for repairing of damaged reinforced concrete elements like columns, beams & structure where the areas are restricted or not easily accessible for proper placement of concrete using vibrator. EX 310 has excellent flowability, workability & proper particle size to reach small & congested reinforcement.

**USAGE AREAS**

- Repair of damaged reinforced concrete elements like beams, columns, wall, etc.
- Where access is restricted and compaction is not possible.
- An ideal material for structural strengthening of columns, beams, etc., by encasement or jacketing.

**FEATURES & BENEFITS**

- Single component ready to use powder which only requires addition of water.
- No compaction required.
- Shrinkage compensated.
- Develops high initial and ultimate compressive strength.
- Provides a durable and strong structural repair.

## TECHNICAL SPECIFICATION

Appearance	Powder
Colour	Grey
Water Demand	18-20 %
Paste Density	2.10
<b>Compressive Strength</b>	
1 day	15 N/mm <sup>2</sup>
7 days	30 N/mm <sup>2</sup>
28 days	40 N/mm <sup>2</sup>

Note: Test results are indicative as per test method specified in standard. Test result may vary as per substrate, site condition & testing machine etc. Actual field performance will depend on installation method and site condition.

## APPLICATION INSTRUCTIONS

### SURFACE PREPARATION

Clean the surface and remove loose concrete, dust, oil, paint, grease, waterproof coating, etc. Expose fully any corroded steel in the repair area and remove all scale and corrosion deposits. Apply Rust Remover for rust free bars. Saturate the substrate with water to prevent absorption of water from the mixed material.

## MIXING

Take approx.200 ml of clean water for 1 Kg of Micro Concrete in a clean bucket. It is very important that add material into water and not vice versa. Stir continuously for 3-5 minutes by using mechanical stirrer or by hand till a pourable consistency is obtained with recommended water powder ratio.

## APPLICATION

Cure the surface with water before application. Pour the Micro Concrete after mixing into the area to be covered /filled/watertight shuttering. During filling if required, ensure proper air displacement. Cure the repaired concrete for minimum 7 days before removing the shuttering. Thickness should be in between minimum of 25 mm to maximum 100 mm. This will prevent the formation of any cracks after healing.

## CURING

Curing is necessary to optimize the physical properties of concrete and to reduce the shrinkage. Continuous moist treatment for a minimum period of 7 days. Curing is particularly critical in rapid moisture loss conditions such as high temperatures, high winds, and low humidity.

**PACKAGING**

20 kg

**PRECAUTIONS & LIMITATIONS**

Strictly follow water-powder ratio as specified.

Do not apply at the temperature below 10°C.

**SHELF LIFE & STORAGE**

Shelf life is 12 months from the date of manufacturing. Store in a cool & dry place in unopened condition (Prevent from direct sunlight).

**HEALTH & SAFETY**

Avoid contact with eyes or prolonged contact with skin. It is recommended to use rubber hand gloves & safety goggles. In case of contact with eyes or skin, rinse immediately with plenty of clean water and seek medical advice. Keep out of reach of children.

For detailed material safety data sheet please contact the manufacturer

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