



**Green Build
Egypt**
Experience and Innovation

ULTRPOXY AN

ألترابوكسي إيه إن

Epoxy based, Two-parts, High Bond, Anchoring Mortar

UltraPox AN Technical Specifications:

- Density : 2 gm/cc.
- Solid Content: 100 %.
- Pot Life: 45 min @ 20° C.
- Load Time: 24 hours.
- Compressive Strength: 70 N/mm².
- Flexural Strength: 10 N/mm².
- Tensile Strength: 15 N/mm².
- Bond Strength: 4 N/mm².
- Pull out test: Failure of concrete.
- Initial Hardness: 24 hours.
- Full Cure: 7 days.
- Shore D Hardness: 80.

Application and Rates

- High workability (creamy consistency) to ensure maximum filling and repairing ability
- **UltraPox AN** supplied in two-packs plastic packs Base (A) ,and hardener (B) weighing 1 Kg , or 3 Kgs'
- Applied easily by inserting into voids and filled by the steel bars to be anchored into old concrete.

Product Handling and Storage

- Store all material in a cool, covered dry place. Do not expose the pails to direct sunlight and keep away from all sources of heat. In tropical climatic conditions, the product has to be stored in an air- conditioned environment and protected from high humidity.
- The shelf life of the product is 12 months in unopened condition if stored as per the recommendations. Exposure to high temperature and humidity will result in considerable deterioration of the product and reduce its shelf life.



UltraPox AN, the features:

- High performance epoxy based structural repair and anchoring mortar, It provides high compressive and bond strengths.
- Suitable for vertical and horizontal applications of anchoring of reinforcing steel bars into old concrete.
- It is easy to mix, and fill into all voids in various types of concrete elements.
- It is available in a convenient pack size to achieve high production rate and minimum loss of materials.
- It is a solvent free material so it is a 100% solids.

Application Procedure:

Hole Preparation: Drill the hole with suitable drill and according to the engineering and consultant recommendation of diameter and depth of the hole.

- Clean the hole carefully by blow off with blower or compressor or brush go the powder inside the hole with long and round brush.



Applications

- **Heavy load-carrying attachments in solid stone, concrete, porous concrete and light concrete**
- **Suitable for attachment of facades, projecting roofs, wooden constructions, metal constructions, metal profiles, consoles, railings, grills sanitary fittings, pipe connections, cable runs etc.**
- **Used for medium-load applications in hollow brick**
- **Suitable for attachment points close to the edge, since anchoring is free of expansion forces**
- **Also suitable as repair mortar or adhesive mortar for concrete components.**

Health and Safety

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

Priming: on most new concrete surfaces priming may not be required. However for best adhesion, prime the prepared hole with **UltraPoxxy Primer** applied with cylindrical brush.

Mixing Mix part A (resin) (White colored) separately for 1 minute using a slow speed drill fitted with a paddle. Then add Part B (Black colored) into Part A and mix thoroughly for 1 minute. to achieve uniform consistency, gray, and creamy mortar, Apply immediately after mixing.



Application **UltraPoxxy AN** has to be inserted into the prepared holes by putty knife, empty silicone cartridge or any suitable mean.

- Insert the steel bar or anchor bolt into the hole strongly until the excess of the mortar comes out of the hole.

- Remove the excess material by putty knife and leave to harden and cure for at least 12 hours.

Cleaning Clean all tools & equipments with suitable solvent immediately after use. Hardened materials can be removed mechanically only.



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