



**Green Build
Egypt**
Experience and Innovation

ULTRAPOXY HP

ألترا بوبوكسي إتش بي

Semi-Gloss, High Build, Solvent-Free, Epoxy Resin Based Coating

Technical Specifications

- Density : 1.8 gm/cc.
- Solid Content: 92 %.
- Pot Life: 45 min @ 30° C.
- Touch Dry Time: 8 Hours.
- Second Coat: 24 hours.
- Compressive Strength: 60 N/mm².
- Flexural Strength: 16 N/mm².
- Tensile Strength: 11 N/mm².
- Bond Strength: 2 N/mm².
- Abrasion Resistance: 40 mg/1000 cycles.
- Initial Hardness: 24 hours.
- Full Cure: 7 days.
- Shore D Hardness: 85.

Application and Rates

- High build application rate; 4-5 m²/kg. according to the porosity and nature of concrete surface.
- **UltraPoxxy HP** supplied in two-packs plastic packs weighing 5 Kg, 10 Kg packs are also available upon request.
- Applied by brush roller or preferably by spraying machine.

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 24 months in unopened condition if stored as per the recommendations. Exposure to high temperature and humidity will result in considerable



UltraPoxxy HP, the features:

- High build epoxy coating for various types of concrete floors, It provides high abrasion and chemical resistance.
- It is easy to apply by brush, roller, or airless spray machines with high application rate/ day.
- It is a solvent free material so can be applied in confined spaces.
- Could be applied on all surfaces, and adheres very well to all building surfaces, **It is not advisable for metal protection applications**
- It is a hygienic. since it provides an impervious and seamless surface which is easy to clean.

Application Procedure:

Surface preparation: Proper care should be taken while executing preparation. The surface should be dry, free of any cement laitance, oil and grease, curing compound and any other contaminants, which may affect the bonding. Light mechanical scrubbing, grit captive blasting or grinding is recommended for cleaning the surface of such contaminants. New concrete surfaces should be 28 days old and the moisture content on the surface must be less than 5%. Refurbishment of existing or old floors must be done with a suitable repair mortar, in order to ensure that the bond between the old substrate and the new flooring system is very good.

Applications

- Shopping malls and places where anti-slippery coat is required.
- Protection of floors of Warehouses and Factory floors.
- Internal lining of water retaining structures.
- Pump and generator rooms.
- Showrooms.
- Food and Pharmaceutical industries areas.
- Parking areas, decks, garages, and car wash areas.
- **UltraPoxy HP** is used in workshops and fabrication units.

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

Priming: on most new concrete floors priming may not be required. However for best adhesion, prime the prepared surface with **UltraPoxy Primer** @ 5-7 m²/Kg. The coating is applied when the primer is in a tacky to semi-tacky condition. However, in all circumstances, the coating shall be applied within 12 hours of application of the primer. If the primer surface is left open for more than 12 hours, then a fresh coat of primer has to be re-applied.

Mixing Mix part A (resin) separately for 1 minute using a slow speed drill fitted with a paddle. Then add Part B into Part A and mix thoroughly for 2 – 3 minutes to achieve uniform consistency. Apply immediately after mixing.



Application **UltraPoxy HP** has to be poured and spread evenly on the floor with a squeegee. The coating will then be finished by rolling the surface with a roller. When the first coat achieves initial cure (i.e. after 24hours) apply second coat at right angles to the first. After application the coating must be back rolled to reduce surface irregularities and improve bonding. Care should be taken to ensure that a continuous film is achieved.

For a non slip finish, broadcast non slip Aggregate No 3 into the first coat @ 1 kg/m² and remove excess prior to application of second coat.

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



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