



**Green Build
Egypt**
Experience and Innovation

ULTRAPOXY ST500

ألترا بوكسي إس تي ٥٠٠

Epoxy Screed mortar, High abrasion, Impact and wear resistant

* Technical Specifications

- Density (mixed product) : 2.2 gm/cc.
- Solid Content: 100 %.
- Pot Life: 50 min @ 25° C.
- Touch Dry Time: 5 Hours.
- Final Coating (If needed) : 24 hours.
- Compressive Strength: 90 N/mm².
- Flexural Strength: 12 N/mm².
- Tensile Strength: 9 N/mm².
- Bond Strength: 3 N/mm².
- Abrasion Resistance: 60 mg/1000 cycles.
- Initial Hardness: 24 hours.
- Full Cure: 7 days.
- Shore D Hardness: 85.

* Application and Rates

- Application rate; 2.2-2.5 Kg./ m² for every mm thickness according to the roughness and nature of surface.
- **UltraPoxyst500** supplied in three-packs system (Base+ Hardener + Filler) weighing 30 Kg.
- Applied by spreading then compacted and finished by traditional trowel.

* 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 deterioration of the product and



UltraPoxyst500, the features:

- High performance epoxy screeding mortar compound for various types of applications, It provides high abrasion Impact, and wear resistance epoxy based seamless floor surface.
- It is a hygienic. since it provides an impervious and seamless surface which is easy to clean.
- It is easy to mix, and spread in required thickness from 5 to 50 mm, and compacted easily and smoothened out to fine finish.
- UltraPoxyst 500 protects the concrete surface against heavy duty wear, impact, and chemical attack.
- It is available in 12 standard colours, special colours upon request.
- Could be applied on all surfaces, and adheres very well to all surfaces, specially concrete floors.

Application Procedure:

Surface preparation: Proper care should be taken while executing it. The surface should be dry, free of any old paint, oil and grease, and any other contaminants, which may affect the bonding between epoxy system and the surface.



Application Fields

- **Protection of concrete floors and slabs.**
- **For heavy and harsh factory environments where high abrasion, wear and impact resistance floors are required.**
- **For steel factories and galvanization and ceramic factories.**
- **Applied for steel stairs and floors.**
- **could be applied on production machines and lines for protection against corrosion, wear and impact attacks.**
- **UltraPoxy ST500 is used in workshops and fabrication units and in all areas need hard, wear and impact resistant floors.**

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.

Light mechanical scrapping, grit/captive blasting or grinding is recommended for cleaning the surface of such contaminants.

Priming: on most surfaces priming is a must to ensure adhesion of the thick mortar to the substrate.

In case of need a primer **UltraPoxy Primer** is applied as a primer

Mixing Add all part B (Hardener) over Part A (Resin) and mix for 1-2 minutes using mechanical mixing, then add part C (Filler) gradually and mix well while adding until a homogenous thick mortar is achieved.



Application **UltraPoxy ST500** has to be applied and spread evenly on the surface with spreading out in the desired thickness. The applied layer should be spread, compacted well and touched by steel trowel to ensure evenly application and smooth surface is obtained.

Covering In case of severe chemical attack areas **Ultrapoxy ST500** may need to be covered by **Ultrapoxy** coating system (Please refer to separate data sheet).

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



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