



Description of Product

T-POX 2400, is a low viscosity, solvent free two part modified epoxy resin based ceramic surface primer.

Fields of Application

- Internal and external substrates
- On concrete and cement based mineral surfaces
- Primer for all epoxy and polyurethane surfaces
- Glass and glazed tile substrates
- Binder for epoxy based levelling mortars and mortar screeds

Advantages

- Low viscosity
- High bond strength
- Solvent free
- Excellent penetration and adhesion ability
- Easy application
- Resistant to mechanical loads and chemicals

Appearance

Part A (Epoxy Resin) : Liquid – Transparent
Part B (Epoxy Hardener): Liquid – Pale Yellow

Packaging

Part A: 14 kg. net – Part B: 6 kg. net
Total: Part A+B: 20 kg. net – Part A+B: 22.55 kg. gross

*Barrels are available if requested.

Storage

Store in original sealed containers in a cool dry environment at temperatures between +5°C and +30°C. Do not put excessive loads on top of the products, which would damage the packaging.

Shelf Life

Minimum 12 months from date of production if stored in original unopened containers. Once opened, product should be consumed within one week as it is stored under appropriate storage conditions.

Chemical Structure

Part A: Epoxy Resin Part B: Epoxy Hardener

Technical Specifications

All technical values were calculated based on +23°C and 50% relative humidity. Temperature and humidity changes would change technical values.

T-POX2400 Technical Data

Density	Mixed Resin: 1.0-1,10 kg/liter (± %3)
Shore D Hardness	7 days: 75-85 (ASTM D2240-05)
Compressive Strength	28 days: > 90 N/mm ² (ASTM D695-10)
Flexural Strength	7 days: > 40 N/mm ² (ASTM D790)
Bond Strength	7 days : > 3 N/mm ² (Concrete) (ASTM D7234)
Abrasion Strength	7 days : 40 mg (± %3) (CS 10/1000/1000) (ASTM D4060-14)
Duration of Use after mixing	40-60 minutes
Consumption	100-150gr/m ²
Powder Dryness	3-4 hour / 23°C
Touch Dryness	8-10 hour / 23°C
Total Curing Time	7 days
Aplication Format	Roll,Bruch,Trowel

Preparation of Substrate

Concrete substrates must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 2,5 N/mm². The residual moisture content of the substrate must not exceed 4%, the substrate temperature should remain a minimum of +8°C and the temperature of the substrate must be at least +3°C above the current dew point temperature. The substrate must be clean, dry and free of all contaminants such as dirt, oil grease, coatings and surface treatments, etc.
Oil-contaminated substrates must first be pre-cleaned with an emulsifying cleaning detergent in accordance with the supplier's instructions. Finally, the concrete or cement screed surface is cleaned using high-pressure water jetting. Excess water is removed from the surface by wet and dry vacuum cleaner. If in doubt of the surface, apply a test area first. Should not be applied to wet, frozen surfaces and surfaces with high humidity.

Application Conditions

During the application, ambient temperature should be between +10°C and +30°C. Relative Air Humidity should not exceed 80% and the substrate temperature should be between +10°C and +30°C. Substrate humidity should be maximum 4%. Substrate temperature shouldn't be less than +8°C must be at least +3°C above the current dew point temperature.

Mixing

Make sure that the product temperatures are between +10°C and +30°C before starting the mixing procedure. Prior to mixing, stir part A and B separately with a mechanical drill and paddle at a very low speed. Add component B gradually into component A and mix till you reach a homogeneous consistency (Approximately 3 minutes).

If it is going to be used as a repair mortar, please add aggregate after mixing A and B components. Pour the contents into a clean container and mix for another couple minutes. Please avoid mixing on high speed and do not add any solvent, etc. into the mixture during the application procedure.

Application Procedure

Avoid application under excessive heat or wind, rain and/or when the ambient and/or substrate temperature is below +10°C or above +30°C. In extremely cold conditions, heaters should be used to increase the ambient and the workability of the product.

After the mixing procedure, T-POX 2400 can be applied to the surface by using stainless steel trowel, rubber float rubber, epoxy roller or by rubbing with a cotton cloth. Make sure that a continuous, pore free coat covers the substrate. Avoid ponding.

Mixed product should be applied in max. 40-60 minutes in about +20°C. Waiting time between coats should be minimum 10 hours in +20°C and maximum 48 hours. If waiting more than 48 hours, the surface should be sanded. The product would be completely cured in a minimum of 7 days to reach its maximum mechanical and chemical resistance. Reaction times of resin based systems depend on ambient and substrate temperatures as well as relative humidity. Under lower temperatures reaction times are longer which increases pot life, coating interval and working time. High temperatures increase chemical reactions and the above mentioned time decreases accordingly.

After application, the material should be protected from direct contact with water minimum for 24 hours. Within this period, contact with water can cause a surface carbonation and/or surface tackiness, both of which must be removed. In such cases, overall coating should be removed from the floor and renewed.

Epoxy and polyurethane flooring systems, should be performed by expert contractors.

Cleaning of Tools

Clean all tools and application equipment with thinner immediately after use. Hardened/cured material can only be mechanically removed.

Coverage

Purpose of Use	Product	Consumption
Primer	T-POX2400	0.100-0.150kg/m ²
Base Coat-Thin (Surface roughness up to 1 mm)	1 unit T-POX 2400+0.50 unit aggregate (100-300 micron thick)	1.4 kg/m ² /mm
Base Coat-Medium Thickness (Surface roughness 1-2 mm)	1 unit T-POX 2400+1 unit aggregate (100-300 micron thick)	1.6 kg/m ² /mm

* Consumption increases as the viscosity gets higher at lower temperature.

Health and Safety Information

The following protective measures should be taken when working with the material: Wear safety gloves, goggles and protective clothing. Because of irritation, effects of the uncured material, components should not come in contact with the skin or eyes. In cases of contact, the affected area should be washed with plenty of water and soap. If swallowed, seek medical attention immediately. Do not drink or eat at the application site.

Product Liability

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