

T-POX 3000

THREE COMPONENT, SOLVENT FREE, EPOXY BASED REPAIR AND FILLING MORTAR

Description of Product

T-POX3000, is a three component, contain specific grade of aggregates, solvent free, epoxy based repair and filling mortar.

Fields of Application

- Industrial floorings
- Joint repairs of highways
- Concrete runways of airports
- The maintenance and repair of marine structures
- Bottom of crane rails
- Bridge bearings and filling the empty space between the steel reinforcement of reinforced concrete columns
- For the surface repairs before epoxy and polyurethane floor coating applications
- Repair works of reinforced concrete elements

Advantages

- Can be used without primer
- High bonding strength to concrete and steel
- High bonding strength
- Solvent free
- Does not shrink
- High abrasion and impact resistance
- High mechanical and chemical resistance

Appearance

Part A (Epoxy Resin): Liquid – Transparent

Part B (Epoxy Hardener): Liquid – Pale Yellow

Part C (Aggregate): Pale Yellow

Packaging

Part A: 10 kg. net – Part B: 2,5 kg. net – Part C: 12,5kg. net

Total: Part A+B+C: 25 kg. net – Part A+B+C: 27,5 kg. gross

Storage

Store in original sealed containers in a cool dry environment at temperatures between +5°C and +30°C. Palettes should not be placed on top of each other during long term storage.

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 Part C: Aggregate

Technical Specifications

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

T-POX3000 Technical Data

Density	Mixed Resin: 1,90-2,10 kg/liter
Shore D Hardness	7 days: 70 – 80 (ASTM D2240-05)
Compressive Strength	28 days: > 70 N/mm ² (ASTM D695-10)
Duration of Use After Mixing	30-40 minutes
Consumption	-
Powder Dryness	1-2 hour / 23°C
Touch Dryness	5-7 hour / 23°C
Total Curing Time	7 days
Application Format	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. Before applying T-POX3000, the substrates should be primed with appropriate momentum materials.

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 and must be at least +3°C above the current dew point temperature.

Mixing

Make sure that the product temperatures are between +15°C and +25°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). Then add Part C (aggregate) in to A and B mix and stir 3 to 5 minutes until you reach a homogeneous consistency.

Application Procedure

With the above mentioned ideal surface and weather conditions; 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. Heaters and driers should be used to measure the ambient humidity and substrate temperature, when necessary.

A surface which does not have sufficient waterproofing should not be coated. After the mixing procedure, T-POX3000 is poured, spread evenly by means of a serrated trowel.

Application thickness should not exceed 50 mm in any single coat. Make sure that there is a non-porous layer that completely covers the surface.

Mixed product should be applied in max. 30-40 minutes in about +23°C. Waiting time between coats should be minimum 10 hours in +23°C and maximum 48 hours. If waited more than 48 hours, the surface should be sanded. The product would be completely cured in minimum 7 days to reach its maximum mechanical and chemical resistance. In case heating is needed, do not use gas, oil, paraffin or other fossil fuel heaters. Use only electric powered warm air blower system. Reaction times of resin based system change 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. After application, the material should be protected from direct contact with water for a minimum of 48 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 and applicators.

Cleaning of Tools

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

Coverage

T-POX3000 A + B + C mixture is used in coating systems and its consumption varies according to usage of it in the system. Please refer to the system recommendations for proper consumption quantities.

**Consumption increases as the viscosity gets higher in lower temperatures.*

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. Keep out of reach of children.

Product Liability

Momentum is just responsible for the quality of the Momentum labelled products. All the data referred herein are gathered as a result of practical and scientific studies. Momentum cannot be legally obligated or responsible for any damage unless correct product is used accurately in suitable areas and under right conditions.

Legal Notes

All the information and guidelines given in this technical sheet was formed and developed through the experience in the laboratories of Momentum, and was systematically collected by our field engineers. "Momentum" has the right to make changes in the product where necessary, without notice. The information given above is valid for the product from the date of publication. It is the user's responsibility to verify the accuracy of the information. The product should be used based on the technical information form for there commended purpose. It is the responsibility of the users to implement all measures for the fulfilment of the specified requirements. The data in the technical information form is designed to give descriptions of the product performance, under specific test conditions. An important factor in product performance is the variables that may occur in the initial process which should be used as a general guide to the user. Any unauthorised use of this product not covered in the written guidelines, Momentum will not be held legally responsible. It is always the responsibility of the user to take all necessary precautions regarding specific requirements of the law set out in local and national legislation. Follow the rules of the safety information provided in the Safety Data Sheet regarding operating procedure of the product, protective equipment, storage, fire and first aid etc. Conditions regarding the use of this product after its end date has no warranty. We can not accept responsibility for products past their expiry date. Responsibility can not be accepted. Please contact the Technical Service department for more detailed information about the