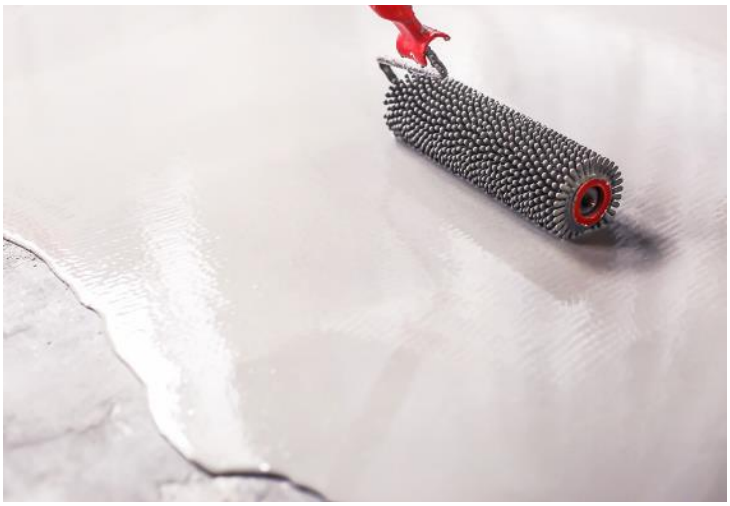
T-POX 3100

TWO COMPONENT, SOLVENT FREE, EPOXY BASED SELF-LEVELING FLOOR COATING



Description of Product

T-POX3100, is a low viscosity, solvent-free, two components, self-leveling, multi-purpose epoxy based coating.

Fields of Application

- On concrete and cement based mineral surfaces
- Warehousing and storage
- Normal up to medium heavy wear e.g. storage and assembly halls, maintenance workshops garages, loading ramps, airplane hangars
- Wet process areas in pharmaceutical and other medical or laboratory buildings
- Supermarkets, shopping centers, garages

Advantages

- Low viscosity
- High bond strength
- Solvent free
- Excellent penetration and adhesion ability
- Easy application
- Highly fillable
- Gloss finish
- Liquid proof

- Hygienic, easy to clean and maintain
- Abrasion resistant, allows metal wheeled traffic

Appearance
Mix (Part A +Part B): Ral Colors
*Differences in color may occur under the influence of direct sunlight. This does not affect the physical and chemical resistance of the coatings.

Packaging
Part A: 12 kg. net – Part B: 3 kg. net
Total: Part A+B: 15 kg. net – Part A+B: 17,55 kg. gross
If sand is to be added (3: 1 ratio) C component: 5kg net
*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-POX3100 Technical Data

Density	Mixed Resin: 1,40-1,50 kg/liter (± %3) (witout sand)
Viscosity	Mixed Resin: 1.000 – 2.000 mPa.s
Shore D Hardness	7 days: 75-85 (ASTM D2240-05)
Compressive Strength	28 days: > 50 N/mm² (ASTM D695-10)
Flexural Strength	7 days: > 25 N/mm² (ASTM D790)
Bond Strength	7 days : > 3 N/mm² (Concrete) (ASTM D7234)
Abrasion Strength	7 days : >30 mg (± %3) (CS 10/1000/1000) (ASTM D4060-14)
Duration of Use After Mixing	30-40 minutes
Total Curing time	7 days
Consumption	1,200-1,400kg/m2 1,700-1,800kg/m2 (with sand)
Powder Dryness	1-2 hour / 23ºC
Touch Dryness	5-7 hour / 23ºC
Total Curing Time	7 days
Aplication 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. 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.
Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve a profiled open textured surface. The surface should be vacuumed by industrial vacuum cleaners to remove dust.
If in doubt of the surface, apply a test area first. Should not be applied to wet, frozen surfaces and surfaces with high humidity.
Before applying T-POX3100, the substrates should be primed with appropriate momentum primer 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 must be at least +3°C above the current dew point temperature.
Before applying T-POX3100, the substrates should be primed with appropriate Momentum primer materials.

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 SAND IS ADDED TO THE MIXTURE (3: 1 RATIO)
Finally, component C is added to the prepared mixture and mixed with a low speed mixer until a homogeneous mixture is obtained (approximately 3 minutes).

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 3100 is poured, spread evenly by means of a serrated trowel. After spreading the material evenly, turn the serrated trowel and smooth the surface in order to achieve an aesthetically higher grade of finish. Roll immediately in two directions with a spiked roller to ensure even thickness.
Make sure that a continuous, pore free coat covers the substrate. For exact color matching, ensure the T-POX 3100 in each area is applied from the same control batch numbers. If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO_2 and H_2O water vapor, which may adversely affect the finish. For heating use only electric powered warm air blower system.
Mixed product should be applied in max. 30 minutes in about +20°C. Waiting time between coats should be minimum 10 hours in +20°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.
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 for a minimum of 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.
To maintain the appearance of the floor after application, T-POX 3100 must have all spillages removed immediately and must be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and

vacuum techniques etc. using suitable detergents and waxes.
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
T-POX 3100 is used as a primary coating material in coating systems. Consumption varies depending on the usage of it in the system.
* Coverage increases as the viscosity gets higher at lower temperature.

Consumption:1,200-1,400kg/m2
1,700-1,800kg/m2 (with sand)

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.
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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.

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