



Description of Product

T-POX 2700 PS , is a low viscosity, two-part epoxy resin based primer.

Fields of Application

- Metal sheet, galvanized and aluminium surfaces
- Any wood, metal and mineral surfaces exposed to water, seawater, chemicals and corrosion
- All general industrial, machinery application for metal protection
- Marine application
- Oil palt (outside)
- Feed silos (inside and outside)

Product Features

- Excellent adhesion
- High corrosion resistance

Appearance

Part A (Epoxy Resin): Silk mat

Part B (Epoxy Hardener): Liquid – Pale Yellow

Packaging

Part A: 16 kg. net – Part B: 4 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-POX 2700 PS Technical Data

Density	Mixed Resin: 1.50-1.60 kg/liter
Viscosity	Mixed Resin: 100-200 mPa.s
Shore D Hardness	7 days: 70-80 (ASTM D2240-05)
Compressive Strength	28 days: > 90 N/mm ² (ASTM D695-10)
Flexural Strength	7 days: > 30 N/mm ² (ASTM D790)
Bond Strength	7 days : > 3 N/mm ² (Concrete) (ASTM D7234)
Abrasion Strength	7 days : 20 mg (± %3) (CS 10/1000/1000) (ASTM D4060-14)
Consumption	0,150+0,200 kg/m ²
Duration of Use After Mixing	40-60 min
Touch dry	2-3 hour
Recoat	24 hour
Total Curing Time	7 days
Aplication Format	Roll,Bruch

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 or frozen surfaces and surfaces with high humidity.

There should not be any rust etc. adverse effects on the metal surface, if any, the surface should be sanded or cleaned by sandblasting method.

Before applying T-POX 2700 PS, 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).

Pour the contents into a clean container and mix for another couple minutes. Please avoid mixing on high speed .

Application details

- A) Metallic Surfaces:** Metallic surfaces such as iron or steel, oil, dirt, rust, rolling mill, or old paint residue by mechanical means or appropriate sand blasting should be cleaned until bright metal is obtained. According to the Swedish standard SIS 05 5900, sand blasting of at least Sa 2½ degree is recommended for surface cleaning. The surface should be primed with Epoxy Primer (for Metal) within 4 hours following this process.
- B) Concrete and Cement Surfaces:** New concrete and cement plaster must be cured for at least 21 days. Mortar residue on the cured surface, etc. Epoxy Primer (for concrete) is applied after being removed by light sanding or brushing. Old concrete and cement plaster on the surface of the old paint, dirt, dust, etc. Loose particles such as sandblasting, scraping, brushing is removed. Oil and grease residues are cleaned with detergent water, if neutralization is required, the surface is wiped with 3-4% hydrochloric acid or acetic solution and washed with water. Before the primer application, the floor should be completely dry.

Thinner: Epoxy Thinner

Thinning ratio: For pistol application: It is thinned by 20%.

For Roller and Brush application: Thin 10-12%.

Method of application: It is applied with short hard bristle brush, short hair roller or airless spray.

Drying time (23 0 C Ambient and Soil Temperature): Surface Drying: 2-4 hours, Full Drying: 18-24 hours, Full Curing: 7 days

Waiting time between coats (23 0 C Ambient and Ground Temperature): Minimum 24 hours.

Note: When shortening the waiting time between coats, the floor should be roughened with sandpaper for good adhesion.

Pot life (20 ° C): 2-3 hours (Mixture quantity and ambient temperature increase, mix life shortens)

Application: It can be applied with brush, roller and spray gun. Thinner is used for thinning when applied by spraying and the paint is thinned to a viscosity of 18 - 20 seconds (DIN CUP 4, 20 ° C) and applied 2-3 times over wet with a gun to give 35-40 m dry film.

Cleaning of Tools

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

Coverage

Depending on the surface quality and absorbency, T-POX 2700 PS A + B mixture consumption is approximately

0,150 - 0,200 kg/m²

* Coverage 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. Keep out of reach of children.

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