T-POX 3350 S

TWO COMPONENT, EPOXY RESIN BASED- TOP COAT PAINT

Description of Product

T-POX 3350 S, two-part epoxy resin based , floor and wall paint and coating.

Features:

Good adhesion to all kinds of metal and concrete surfaces, high resistance to friction, has a high chemical and mechanical resistance and forms a hard film. The film surface is bright and slippery. Easy to clean, does not contain bacteria, does not dust, does not harm health. It is resistant to dilute acids, dilute and concentrated alkalis, cleaning detergents and disinfectants, vegetable, mineral and animal oils, sea water, diesel oil, gasoline, alcohol and many other solvents.

Fields of Application

- On concrete and cement based mineral surfaces
- Normal up to medium heavy wear e.g. storage and assembly halls, maintenance workshops, garages, loading ramps
- Pedestrian walkways, parking lots and power plants
- Hospitals, laboratories, operating rooms, and in hygienic areas such as food and laundry facilities
- Metal silos and steel constructions
- In order to protect against chemical and mechanical factors; refineries, petrochemicals and other industrial establishments, waste water, pharmaceutical, food industry, hospitals, boats and ships on all surfaces
- Feed silos (inside and outside)
- Oil plants (outside)

Advantages

- High bond strength on moist surfaces
- Easy application
- Hygienic and easy to clean
- Resistant to mechanical loads, abrasion and chemicals

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: 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 3350 S Technical Data

Density	Mixed Resin: 1.40-1.50 kg/liter (± %3)
Shore D Hardness	7 days: 75-80 (ASTM D2240-05)
Compressive Strength	28 days: > 50 N/mm² (ASTM D695-10)
Flexural Strength	7 days: > 30 N/mm² (ASTM D695-10)
Bond Strength	7 days : > 3 N/mm2² (Concrete) (ASTM D7234)
Abrasion Strength	7 days : <20 mg (± %3) (CS 10/1000/1000) (ASTM D4060 – 14)
Duration of Use After Mixing	Max 6-8 Hour
Consumption	0,200+0,300 kg/m2 for wall, 0,500+0,600kg/m2 for floor
Powder Dryness	2-4 hour / 23ºC
Touch Dryness	5-7 hour / 23ºC
Acceptence Dryness	16-24 hour /23ºC
Total Curing Time	7 days
Aplication Format	Roll,Bruch,airsprey

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 3350 S, 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. Painting of prepared surfaces should not be left until the next day. If the application has to be postponed, the surface should be sandblasted and cleaned before priming. In other metals and alloys (galvanized, aluminum, sheet metal, etc.) the surface is cleaned with a special cleaner after one coat
Wash Primer should be applied.

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): 6-8 hours (Mixture quantity and ambient temperature increase, mix life shortens)

Application: Epoxy Topcoat 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. In the application of the paint in closed places, the environment should be well ventilated.

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 3350 S A + B mixture consumption is approximately

0,200-0,300 kg/m² for wall
0,500-0,600 kg/m2 for floor

* 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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