

## **T-POX 3350 M** EPOXY INTERMEDIATE COAT

### **Description of Product**

T-POX 3350 M, two-part epoxy resin based , intermedia coat for epoxy coating system.

### **Features:**

Good adhesion to all kinds of metal and concrete surfaces for middle coat, high resistance to friction, high adhesion..

### **Fields of Application**

#### **System to be used for middle coat ;**

- On concrete and cement based mineral surfaces
- Pedestrian walkways, parking lots and power plants
- 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
- Resistant to mechanical loads,

### **Appearance**

Mix (Part A +Part B): Gray , white

\*Differences in color may occur under the influence of direct sunlight. This does not affect the physical and chemical resistance of the coatings.

### **Product compatibility - primer and topcoat products**

Depending on the conditions to which the paint system is exposed, a variety of primers and topcoats may be used in accordance with this product.

Applicable

Primer:T-POX 2800 ZR epoxy zing rich primer

Top coat:T-POX 3350 S Epoxy top-coat paint and T-POL 3600 polyurethane top-coat paint

### **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: 1.60-1.70 kg/liter (± %3)
Shore D Hardness	7 days: 75-80 (ASTM D2240-05)
Compressive Strength	28 days: > 50 N/mm <sup>2</sup> (ASTM D695-10)
Flexural Strength	7 days: > 30 N/mm <sup>2</sup> (ASTM D695-10)
Bond Strength	7 days : > 3 N/mm <sup>2</sup> (Concrete) (ASTM D7234)
Abrasion Strength	7 days : <20 mg (± %3) (CS 10/1000/1000) (ASTM D4060 – 14)

## Preparation of Substrate

Concrete substrates must be sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull off strength of 2,5 N/mm<sup>2</sup>. 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 M, the substrates should be primed with appropriate Momentum materials (TPOX 2800 ZR.)

## 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 +10°C and +35°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 2-3 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 (T-POX 2800 ZR epoxy zinc rich primer).

- 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

Dry film thickness	100 -	230 μm
Wet film thickness	130 -	300 μm
Kg consumption	0,200kg / 120 μm(wet)	

\* 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.

### 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