

## Product's description

### High thickness coating, approved for drinking water and food solutions.

**Atoxatria** is a double-component, non toxic, epoxy-polyamide resins based coating, without solvents, with stable pigments and waterproof braking effect, providing the product with high chemical resistance to eatable oil, drinking water, liquid (oil, vegetables, beer, etc...) or solid foodstuffs (wheat, Indian corn, fodder, etc.). Excellent mechanical resistance, glossy aspect, it doesn't adulterate foodstuffs' taste or odour. It is suitable for sterile and hospital environments.

## Practical advice Technical features

Suitable for reservoirs or tanks made of iron, concrete, galvanized sheet, prefabricated cement.

Aspect	Glossy
Color	White, red, yellow
Density Kg/Lt.	1,55 ± 0,05
Viscosity 25°c	3000 ± 1000 mpa s
Solid content by volume %	98%
Theoretical spreading rate Sq.m/l – g/m <sup>2</sup>	4 Sq.m./l. - 400 g/Sq.m. for two coats
Typical thickness humid/dry micron	250 dry – 255 humid
Mixing ratio Base/Hardener	Base 80 – Hardener 20 by weight RED OR YELLOW Base 85 – Hardener 15 by weight for Withe
Pot Life	40-50 minute at 20 °C
Thinner	DEA 395 epoxy, non toxic thinner or ethyl alcohol
Painting method	Brush Roller Spray Airless Spray
	0 – 5% thinning 2 - 5% thinning – not very suitable Not suitable to reach the typical thickness 2 – 7% thinning Nozzle's diameter 0,6 – 0,8 mm Compression Ratio 45:1 – 60:1 Exit pressure 170 –210 pa (atm.)

Curing time

Temperature

Untouched  
Absolutely dry  
Over-application

Minimum Maximum

10 °C  
36 hours  
72 hours  
36 hours  
10 days

25 °C  
15 hours  
24 hours  
24 hours  
4 days

35 °C  
8 hours  
18 hours  
18 hours  
2 days

Flash point  
Shelf life  
Standard package

- 50°C  
24 months  
Lt 3 for red and yellow  
Lt 3 – Lt 6 – Lt 12 for Withe

## Notes

Protect from fire and inflammable materials, with the tins tightly closed, in a mild place. Protect from frost– 0 °C.

heat resistance of the epoxy paint is compatible with a temperature of 100°C when immersed in seawater

## Application instructions

### Preparation of the surfaces

New iron: sand-blast until the iron is exposed, with degree 2 ½ of Svensk scale - Standard SIS 1967 (SPCC SP 5) and apply, Plastofond AS, Miox primer, or directly Atoxatria over the metal.

Painted iron: remove mechanically the old paintwork. Sandpaper to obtain a good adhesive power (Mioxide), putty any imperfections with epoxy putty (Epostucc) and apply two or more coats of Atoxatria, until a minimum thickness of 250 dry micron is reached.

New concrete, masonry and cement mixtures: Check that the surface is dry and has seasoned for at least 28 days. Remove any peeling or chalking parts, by staking or sanding the surface. Apply one coat of strengthening, double-component, water based primer (Idrosem wp). Putty any imperfections with Epostucc (cracks and holes), sand, if necessary and apply Atoxatria with a minimum thickness of 210 micron dry film, and a consumption of 0,400 kg/Sq.m..

Coated and partially deteriorated concrete, masonry and cement mixtures: value each time the coating's adhesive power over the surface. If the chalking parts are below 10%, it's possible to remake the surface, otherwise it is highly recommended to remove the old coating by sandblasting or staking or by any other proper system. Anyway, a double-component, strengthening, hydro-dilutable primer (Idrosem) is to apply. Even out any imperfections (cracks and holes) with an epoxy putty, sand, apply the insulating primer over puttied and uncoated areas. After drying, apply Atoxatria with a minimum thickness of 210 micron dry film, with a consumption of 0,400 kg/Sq.m.

Application notes: **Atoxatria**, as any other epoxy product, chinks if exposed to UV rays. Do not apply at temperatures below + 10 °C and above + 35 °C, with air relative humidity below 65%, with higher humidity and lower temperatures. The applied film tends to whiten on the surface, but this phenomenon does not reduce the product's chemical and mechanical resistance. **Atoxatria** is not to be applied over surfaces with salt efflorescence or osmotic rising damp, otherwise it won't adhere to the surface. Before applying **Atoxatria**, mix properly the base and the hardener. Eventually pour the mixture in a clean tin and go on blending. This operation is necessary to avoid having non mixed product in the tin.

WARNING: the product without the proper hardener ratio does not harden and does not reach the proper chemical resistance features. **Atoxatria** is to apply within 1 hour from preparation.

### It is recommended for

Constant immersion in drinking water, wine, beer, vegetable oils, solid substances, cereals, corn, starchy food, fodder.

### It is not recommended for

Immersion in alcohol, concentrated acids and alkali, ammonia, solvents.

### Recommended primers and intermediates

Plastofond As, Mioxide, Miox, Idrosem wp.

### Safety precautions

- The product is inflammable. Respect the safety norms in force for transport, storage and application. In case of application in closed places, provide a proper ventilation or forced exhaust. Do not waste the empty tins in the environment, let them dry and dispose them of as special waste. For any further information, see the technical data.

**Tender Item**

Application of **Atoxatria**, , non toxic, epoxy-polyamide resins based topcoat, with braking effect pigmentation over internal surfaces of iron reservoirs and concrete tanks, containing liquid or solid foodstuffs, with a consumption of 0,250 l/Sq.m., excluded practical operating loss

(\*) These information, even if reliable, are absolutely approximate. The company owns the right to change them without any notice. Moreover, it is not responsible for the use of the present information. The user must previously test the product's suitability, before using it. For any further explanations or requirements on the products, please contact the staff of our technical lab.