

## DUNAPLASZT ELEKTRO EF / DUNAPLASZT TRIBO EF Powder coating

### TECHNICAL DATA

**Composition:** DUNAPLASZT ELEKTRO/TRIBO EF products are epoxy-fenol based and heat-curing powder coatings containing precious colouring pigments, filling materials, a catalyzer and other additives.

BTO 2430129910

#### Sortiment:

DUNAPLASZT ELEKTRO EF coloured

The Sortiment varies according to customers' need. We produce and manufacture paints in RAL colours based on the RAL colour chart. We manufacture high gloss, semi-gloss, normal powder coatings.

**Field of application:** The powders are used as coating of different steel and aluminium surfaces.

They can preferably be used for coating of garden, , air conditioning, laboratory and surgical instruments, accessories of agricultural machines, radiators etc. made from metal pipes.

Applied and burnt in on an adequately prepared or pretreated surface, DUNAPLASZT ELEKTRO/TRIBO EF products form *a well adhesive, hard, and at the same time flexible and highly shock resistant and abrasive resistant, super durable coatings.*

Quality parameters	high gloss	semi-gloss	
Appearance	white and coloured powders		
Residue on sieve (MSZ 810/3:1980), (mesh number: 3600; 0,102 mm sieve pore), %, max	3		
Gelling time, 180 °C, min	3-5		
Low explosion value, g/m <sup>3</sup> , about	50		

DUNAPLASZT ELEKTRO Ef / DUNAPLASZT TRIBO Ef Powder coatings

Baking time, 180 °C, depending on the type	20		
Ignition temperature, °C, about	400		
Appearance of coating	high gloss	semi-gloss	
Erichsen flexibility, (MSZ 9640/6:1987) mm, min	7	7	
Flexibility by bending, (MSZ 9640/5:1987), mm., max.	3	3	
Shock resistance (MSZ 9640/9:1980), cm, (1000 g)	60	60	
Water resistance (MSZ 9640/11:1983), at 20°C	durably waterproof		
Chemical resistance (MSZ 9640/28:1988) at 20 °C, immersed for 48 hours			
3 % hydrochloric acid	no change in coating		
10 % hydrochloric acid	no change in coating		
3 % nitric acid	no change in coating		
3% lactic acid solution	no change in coating		
96 % ethyl alcohol	no change in coating		
Red wine	no change in coating		
Detergent resistance (MSZ 9640/13:1988), at 80 °C, immersed for 48 hours in a 1% „Tomi Sztár” solution	no change in coating		
Coverage (MSZ 9650/22:1989)	7-10 m <sup>2</sup> /kg (depending on the layer thickness)		

*The quality parameters of the coating refer to a layer thickness of 60 µm.*

**Storage stability:** stored according to MSZ 13910:1973, 20 months from the date of manufacturing.

**Packaging:** In units of 16 and 20 kg (depending on colour), in polyethylene bags and corrugated cardboard boxes.

**Application:** Prior to coating, steel surfaces should be cleaned of any dirt and grease, and as of an eventual pretreatment, phosphating can also be applied. Aluminium surfaces should also be degreased. The obtained bare metal surfaces can also be chromated.

In the case of exposure to heavy corrosion strain, or if the coating is expected to last more than 5 years, it is advisable that metal surfaces be prepared, respectively make rough by bead blasting.

The powder coating can be applied by electrostatic spraying (ELEKTRO) or by the so called “tribomatic” process (TRIBO). The above-mentioned methods can be well mechanized, respectively automatized.

**Fire hazard category:** the products are of the fire hazard category IV.

We draw your attention that powder coatings are very fine powder materials which can form with air an explosive mixture if the concentration of the powder exceeds the lower explosion

value, which is about 50 g/m<sup>3</sup>. In order to prevent the hazardous powder concentration value, powder coating should be applied in a spraying chamber which is provided with a ventilation system designed to detect the lower limit of fire hazard value.

**Material content hazardous to health:** Only silver coloured powder coatings contain hazardous material. 1-6% aluminium powder (EINECS: 231-072-3)

**VOC content:** 0 g/l

H statement (GHS / CLP) : -

P statement (GHS / CLP) :

P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.

P284 – Wear respiratory protection.

P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P402 – Store in a dry place.

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The technical information describing our products were compiled to the best of our knowledge. However, we cannot know the individual requirements and expectations of all of our users, therefore, you are kindly asked to regard the data given as of an informative character, for which we do not assume any responsibility.