

DUNAPLASZT ELEKTRO / TRIBO Poliuretane Powder coating for exterior

TEHNICAL DATA :

Structure:

Powders cured by heating, based on polyester isocyanate resin and containing colouring pigments, fillers and other additives.

Assortment :

DUNAPLASZT ELEKTRO P transparent
DUNAPLASZT ELEKTRO P coloured

DUNAPLASZT TRIBO P transparent
DUNAPLASZT TRIBO P coloured

This assortment of electrostatic powder paint is produced in RAL colors , PANTONE and color samples brought by the client . This product is produced in the following variations : shiny , gloss and matte and smooth or structure (fine or high / orange peel) .

Field of application : These paints are used for many different purposes , primarily to cover the surface of steel and aluminum are found **outdoors**. They can be used to cover furniture, fence elements , agricultural machines , facade elements , windows etc. Being applied properly prepared surfaces or preliminary treated after polymerization they give an adherent layer , tough , yet flexible and impact resistant , and UV wear . The layer hardness is **very resistant** to mechanical actions just like the epoxy-poliester based powder.

Quality parameters:

Appearance:	white or coloured powders
Gelling time, 180°C	3-5 minutes
Baking time, 180°C max.	20 minutes
Low explosions value,	52 g/m ³
Ignition temperature	380°C
The coating appearance:	of suitable colour, glossy, semigloss or matte
Adhesion (grade, MSZ EN ISO 2409:1999)	0
Flexibility according to Erichsen (MSZ 9640/6)	7
Flexibility by bending (9640/5:1987)	3
Shock resistance (MSZ 9640/9)	40
Water resistance (MSZ 9640/11-1983)	no change
Chemical resistance (MSZ 9640/28-1988) (after 48 hours at 20 °C)	
3 % hydrochloric acid	no change
10 % hydrochloric acid	no change
3 % nitric acid	no change
96 % ethanol 3 % solution of NaCl	no change

red vine	no change
natural gas	no change
organic dung	no change
Theoretical spreading rate (MSZ 9650/22:1989)	5-12 m ² /kg
VOC level	0 g/L

All of the abovementioned data relate to a thickness of 60 µm.

Storage stability: stored according to MSZ 13910 :1973, 24 months from the date of manufacturing.

Packaging: In 16 kg and 20 kg units

Application : Before installing, metal surfaces should be degreased , in view of a possible pre-treatment - a phosphate can also be used .

If corrosion heavy loads or if the film is that to last 5 years , it is preferable preparation or roughening the surface by sanding.

Application will be made by means of electrostatic spraying (CORONA) , or the process called " tribomatic " (TRIBO) . These processes can easily be mechanized or automated. This powder can be applied as cold or heated surfaces . On cold surfaces for a glaze can be made about 60-80 µm thick and heated at 180°C on surfaces for approx. 20 µm thick. The heating temperature depends on the thermal capacity of parts and shape. Between the polymerization time and oven temperature exists the following relationship :

Oven temperature (°C)	150	160	170	180	190	200	210
Polymerization time (min)	60	40	25	20	15	10	8

Fire hazard category: The powders can form with air an explosive mixture, if the powder concentration exceeds the lower explosion value.

Material content hazardous to health: it does not contain gifting materials.

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



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