

# INFRALIT EP/PE 8092-03

## Semiconductive Epoxy/Polyester Powder Coating

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<b>PAINT TYPE</b>	INFRALIT EP/PE 8092-03 is a powder coating based on epoxy and polyester resin, which at elevated temperatures melts, cures and forms a semiconductive paint film.
<b>USAGE</b>	INFRALIT EP/PE 8092-03 is developed for areas within the electronics industry where static electricity forms a problem.
<b>SPECIAL PROPERTIES</b>	<p>The surface resistance of INFRALIT EP/PE 8092-03 is 1,0 - 10 MOhm depending on a film thickness and with 100 voltage.</p> <p>The resultant paint film has excellent mechanical properties, i.e. abrasion, impact resistance and elasticity. The paint film is not scratched easily and withstands action by chemicals, greases and solvents. The anticorrosive properties are also good.</p>

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**TECHNICAL DATA**

<b>Colours</b>	Blue TW-3251
<b>Gloss grades</b>	Semigloss (S)
<b>Solids</b>	100%
<b>Specific gravity</b>	Abt. 1,8 kg/dm <sup>3</sup>
<b>Spreading rate</b>	7 - 9 m <sup>2</sup> /kg depending on the film thickness
<b>Film thickness</b>	70 ± 10 µm. Avoid too thick coating as it will weaken the special properties.
<b>Curing time</b>	15 min/180°C (metal temperature)
<b>Packages</b>	20 kg
<b>Storage</b>	In dry and cool conditions.

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**SAFETY PRECAUTIONS**

The powder itself is non-flammable, but with air it can form an explosive mixture that in presence of adequate ignition energy ignites. The lower explosive limit is about 70 g/m<sup>3</sup> (Bundesanstalt für Materialprüfung). Ventilation of the spray booth should be adjusted so that the concentration of powder in the air is less than 50% of the lower explosive limit value. On calculation of the powder concentration in the spray booth, the powder deposited on the workpiece is not taken into account. In order to avoid the discharge of powder from the booth into adjacent working spaces, the speed of air flow in the apertures of the booth must not fall below 0.5 m/s. Spray painters should wear dust masks and protective gloves. Any spatter of powder on the skin should be washed off with water and soap.

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**DIRECTION FOR USE****Surface preparation**

Remove all grease and dirt with care. Mere degreasing can be done e.g. by trichloroethylene vapour bath or alkali wash. Blast-clean or etch and phosphate rusty and mill-scaled surfaces.

COLD-ROLLED SURFACES: Degrease by trichloroethylene vapour bath or alkali wash. Zinc phosphating is also required if the workpiece will be subjected to exceptional strain indoors.

**FILM PROPERTIES**

The following results have been obtained with the standard grade, curing 15 min/180°C, film thickness 70 µm:

**Physical properties**

Flexibility (Erichsen, ISO 1520)	7 mm
Impact resistance (Erichsen, SFS EN ISO 6272)	
- direct	40 kgcm
- reverse	40 kgcm
Pendulum hardness (König, SFS 3642)	180 s
Flexibility (SFS ISO 6860)	less than 5 mm
Adhesion (cross-cut test, EN ISO 2409)	GT 0

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The information of this data sheet is normative and based on laboratory tests and practical experience. Teknos guarantees that the product quality conforms to our quality system. Teknos accepts, however, no liability for the actual application work, as this is to a great extent dependent on the conditions during handling and application. Teknos accepts no liability for any damage resulting from misapplication of the product. This product is intended for professional use only. This implies that the user possesses sufficient knowledge for using the product correctly with regard to technical and working safety aspects. The latest versions of Teknos data sheets, material safety data sheets and system sheets are on our home pages [www.teknos.com](http://www.teknos.com).

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