

INFRALIT EP/PE 8141-00

Epoxy/polyester powder

INFRALIT EP/PE 8141-00 is a powder coating based on a mixture of solid epoxy and polyester binders. At elevated temperatures the powder will melt, cure and form the final paint film.



Suitable for coating metal industry products, such as lighting fixtures, apparatuses, wire gratings and refrigerating fixtures.

The mechanical and chemical resistance as well as the anticorrosive properties of INFRALIT EP/PE 8141-00 Epoxy/Polyester powder are almost equal to those of epoxies.

On outdoor exposure INFRALIT EP/PE 8141-00 epoxy/polyester powder has a tendency towards matting down (chalking) similar to that of pure epoxies. On the other hand, its tendency to yellow on overbaking and exposure to heat and ultraviolet light is minor as compared with epoxy powders.

TECHNICAL DATA

Fields of application	Household appliances
Recommended substrate	Steel, Aluminium
Binder	Epoxy-polyester
Solids	100%
Practical spreading rate	4 - 15 m²/kg depending on the film thickness.
Film thickness	The recommended film thickness is 70 - 90 μm.
	The optimal film thickness must be defined case-specifically by test
	applications. In some cases the film thickness might exceed the previously
	mentioned maximum value.
Colours	By agreement.
Gloss (60°)	Effect resembling sandpaper
Density	Approx. 1,25 - 1,70 kg/dm³ depending on colour.
Storage	The storage life is minimum 18 months in dry and cool conditions when the
	temperature during storage and transportation is max. +25°C.
	Take special care during high temperature seasons. Avoid storing close to heat
	sources and heaters in trucks and storages. Don't store in direct sunlight. The
	recommended expiry date of the powder coating that has been stored according
	to the instructions is shown on the package label.
Packaging	15 kg or 20 kg according to the density of the powder.



DIRECTION FOR USE

Surface preparation	STEEL SURFACES: Remove grease and dirt. After that blast-cleaning at least to preparation grade Sa $2\frac{1}{2}$ (ISO 8501-1) and/or a suitable chemical pretreatment.
	ALUMINIUM SURFACES: Remove grease and dirt. After that chromating or alternatively a suitable chemical pretreatment.
	HOT-DIP-GALVANIZED AND ZINC-ELECTROPLATED SURFACES: Remove
	grease, dirt and white rust by e.g. alkali wash. Depending on exposure
	conditions, chromating or alternatively a suitable chemical pretreatment is also
	required.
Application method	Tribo charging spray, Corona charging spray
Curing time	10 min/180°C (substrate temperature)
	Curing time indicates the time needed for the curing of the paint.
	Curing parameters and oven type may effect the colour and gloss of the paint.
	The temperature of the powder coating has to reach the temperature inside the paint shop before the package is opened. The application properties may be deteriorated, if the temperature of the powder is lower than this.

HEALTH AND SAFETY

Safety and precaution measures

See safety data sheet.

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 explosion limit of typical powder coatings is between 20 g/m³ and 80 g/m³ (CEPE, Safe Powder Coating Guideline 8th Edition, 2020). 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.



Teknos Group Oy Takkatie 3, P.O.Box 107 Fl-00371 Helsinki, Finland Tel. +358 9 506 091

The above information is normative and based on laboratory tests and practical experiences. The information is noncommittal, and we cannot accept liability for the results obtained under working conditions beyond our control, and consequently the buyer or the user is not released from the obligation to test the suitability of our products for specific means and application methods under the actual application conditions. Our liability covers only damage caused directly by defects in the products supplied by Teknos. 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' Technical Data Sheets and Safety Data Sheets are available from our homepage www.teknos.com. All trademarks displayed on this document are the exclusive property of Teknos Group or its affiliated companies.