

INFRALIT PE 8350-02

Polyester powder

INFRALIT PE 8350-02 is a TGIC-free powder coating based on solid polyester resin. At elevated temperature the powder will melt, cure and form the final paint film.



Suitable for objects which require a weather-resistant coating, especially for coating of aluminium objects. INFRALIT PE 8350-02 forms a mechanically and chemically resistant paint film which has good corrosion resistance and good colour stability and gloss retention also in outdoor conditions.

APPROVALS:

GSB material approval. Registration number 145b, Cl. "Florida 1 year".

Qualicoat approval number P-0412, Cat. 3, Cl. 1

Quality-System Approval (Module D) number EUFI29-22005225-MED and EC Type-Examination Certificate (Module B) number EUFI29-19003427-MED according to Marine Equipment Directive (2014/90/EU).

EN 45545-2:2013+A1:2015 Fire protection on railway vehicles. Requirement sets R1, R7, R10 & R17 - Hazard levels HL1, HL2 & HL3.

EN 13501-1: 2007 + A1:2009 Fire classification of construction products and building elements - Part 1: A2 - s1- d0.

NFPA 130:2020 Standard for Fixed Guideway Transit and Passenger Rail Systems, Chapter 8 - Vehicles

- ASTM E 162:2016 Standard Test Method for Surface Flammability of Materials Using a Radiant Heat Energy Source
- ASTM E 662:2017 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials

TECHNICAL DATA

Certificates, approvals and	ASTM E 662:2017, ASTM E 162:2016, EN 13501-1, EN 45545-2, GSB Florida 1
classification	approval, Marine Equipment Approval (Module D), Marine Equipment Approval
	(Module B), Qualicoat approval, class 1
Fields of application	Windows, Exterior doors, Balcony elements, Fences, Garden furniture,
	Machinery, Steel constructions, Transportation equipment, Ship
Recommended substrate	Steel, Zinc, Aluminium
Binder	Polyester
Solids	100%
Practical spreading rate	6 - 10 m²/kg depending on the film thickness.



INFRALIT PL 0330-02	
Film thickness	The recommended film thickness is 60 - 100 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	The colours that are available directly from stock are the standard and
	pearlescent shades according to RAL-CLASSIC Colour Card. Other shades by
GI (GGO)	agreement.
Gloss (60°)	71-85
Density	Approx. 1.4 - 1.8 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 2½ (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

	required.
Application method	Corona charging spray

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Curing time	10-25 min/180°C (substrate temperature)
	7-12 min/200°C (substrate temperature)
	9-15 min/190°C (substrate temperature)

Curing time indicates the time needed for the curing of the coating.

Curing parameters and oven type may effect the colour and gloss of the coating.

conditions, chromating or alternatively a suitable chemical pretreatment is also

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.

FILM PROPERTIES

Typical values	Substrate 0.6 mm thick chromated aluminium, curing 15 min/+190°C, film thickness 60 - 70 µm. Testing 1 h after curing:
Cross-cut test ISO 2409	GTO CTO
Cupping ISO 1520, mm	6.0
Impact resistance, ISO 6272-2,	40.0
direct, kgcm	
Impact resistance, ISO 6272-2,	40.0
reverse, kgcm	
Bend test (cylindrical mandrel) ISO	5.0
1519, mm	

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