



INFRALIT PE 8431-10

Polyester Powder

PAINT TYPE	INFRALIT PE 8431-10 is a powder coating based on polyester resin, which due to its special hardener is free of TGIC. At elevated temperatures the powder melts, cures and forms the final paint film.
USAGE	INFRALIT polyester powders are suitable for product coating within the metal industry for objects that require a weatherproof coating that will not yellow on exposure to heat or ultraviolet light. Examples of use are e.g. constructions that are permanently outdoors.
SPECIAL PROPERTIES	<p>INFRALIT polyester powders form a mechanically and chemically resistant paint film that has good anticorrosive properties and that will retain its gloss also in outdoor conditions.</p> <p>When used in accordance with coating system K122 INFRALIT PE 8431-10 meets the requirements for camouflage technical properties of the Finnish Defence Force that are included in specification of requirements M 064, version 2.0.</p>
TECHNICAL DATA	
Spraying	The powders are suitable for corona charging and for tribo charging sprays.
Colours	AN11, dark green AN22, light green AN33, brown AN44, black
Finish	Full-matt
Solids	100%
Specific gravity	abt. 1,6 kg/dm ³
Spreading rate	6 - 10 m ² /kg depending on the film thickness
Film thickness	Recommended film thickness is 80 - 120 µm.
Curing time	15 min/210°C (metal temperature).
Package	20 kg
Storage	Minimum 12 months in dry and cool conditions.

SAFETY PRECAUTIONS	<p>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 for polyester powder is about 80 g/m³ (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.</p> <p>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.</p> <p>Spray painters should wear dust masks and protective gloves. Any spatter of powder on the skin should be washed off with water and soap.</p>
---------------------------	---

DIRECTION FOR USE**Surface preparation**

STEEL SURFACES without chemical preparation:
See COATING SYSTEM K122.

STEEL SURFACES with chemical preparation:
See COATING SYSTEM K122.

ALUMINIUM SURFACES with chemical preparation:
See COATING SYSTEM K122.

FILM PROPERTIES

When used according to COATING SYSTEM K122:

Physical properties

Impact resistance (Erichsen, SFS EN ISO 6272)

- direct

40 kgcm

- reverse

40 kgcm

Flexibility (SFS ISO 6860)

less than 5 mm

Adhesion (cross-cut test, EN ISO 2409)

GT 0

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.



EN_1221_Tuoteseloste.pdf