



INFRALIT PUR 8450-20

Polyurethane Powder

PAINT TYPE

INFRALIT PUR 8450-20 is a polyurethane powder coating that at elevated temperature will melt, cure and form the final paint film.

USAGE

INFRALIT PUR 8450-20 is suitable for use on steel and aluminium structures indoors and outdoors.

SPECIAL PROPERTIES

INFRALIT PUR 8450-20 forms a mechanically and chemically resistant, smooth paint film that protects from UV-light.

TECHNICAL DATA**Spraying**

The powder is suitable for corona charging and for tribo charging sprays.

Colours

Clear coat and translucent clear coats, by agreement.

Finish

Gloss

Solids

100%

Specific gravity

Abt. 1,2 kg/dm³

Spreading rate

8 - 14 m²/kg depending on the film thickness

Film thickness

The recommended film thickness is 50 - 80 µm.

Curing time

15 min/200°C (metal temperature)

Packages

In 15 kg packages.

Storage

Minimum 12 months in dry and cool conditions.

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 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.

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.

DIRECTION FOR USE

Surface preparation

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

ALUMINIUM SURFACES: Degrease by e.g. alkali wash. Surfaces to be exposed to severe atmospheric conditions should also be chromated.

FILM PROPERTIES

Substrate 0.8 mm thick cold-rolled steel, curing time 15 min/200°C, film thickness 80 µm:

Physical properties

Flexibility (Erichsen, ISO 1520)	above 9 mm
Impact resistance (Erichsen, SFS EN ISO 6272)	
- direct	40 kgcm
- reverse	40 kgcm
Pendulum hardness (König, SFS 3642)	200 s
Flexibility (SFS ISO 6860)	less than 5 mm
Adhesion (cross-cut test, EN ISO 2409)	GT 0
Taber Abraser ASTM D821-74, CS-10 wheel	< 50 mg/1000 cycles

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.



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