



INFRALIT PUR 8450

Polyurethane Powder

PAINT TYPE

INFRALIT PUR 8450 is a polyurethane powder coating. At elevated temperatures the powder melts, cures and forms the final paint film.

USAGE

INFRALIT PUR 8450 is suitable for use on steel and aluminium structures in- and outdoors. The suitability of using metallic colours outdoors has to be negotiated with the manufacturer of the paint.

SPECIAL PROPERTIES

INFRALIT PUR 8450 forms a mechanically and chemically resistant film that has good levelling properties, good resistance against UV light and that will not yellow.

Note that fluorescent colours such as RAL 2005, 2007, 3024 and 3026 have a limited durability of max. 12 months. RAL 1026 is not recommended for use outdoors.

TECHNICAL DATA**Spraying**

The powder is suitable for corona charging and for tribo charging sprays. Variants -02 and -07 are suitable only for corona charging sprays.

Colours

Available in colours according to RAL, NCS or other colour cards. Fluorescent colours such as RAL 1026, 2005 etc. require a white primer. For this purpose we recommend INFRALIT PE 8350, colour RAL 9016 or RAL 9003.

Gloss 60°

40 - 90: variants 8450-00, -04, -07
30 - 40: variant 8450-02

Solids

100%

Specific gravity

Abt. 1,5 kg/dm³ depending on colour

Spreading rate

6 - 12 m²/kg depending on the film thickness

Film thickness

The recommended film thickness is 60 - 100 µm.

Curing time

10 min/190°C (metal temperature) - variants: 8450-00, -02, -04
15 min/200°C (metal temperature) - variant: 8450-07

Packages

15 kg or 20 kg according to the specific gravity of the powder.

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.

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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