

INFRALIT PUR 8455, 8456, 8457

anti-graffiti polyurethane powder

PAINT TYPE	INFRALIT PUR 8455, 8456 and 8457 are polyurethane powder coatings. At elevated temperatures the powders melt, cure and form the final paint film.
USAGE	The powders are suitable for use on steel and aluminium structures on objects where good weathering properties and special resistance to chemical and washing is required, e.g. gasoline pumps.
SPECIAL PROPERTIES	The anti-graffiti powders have better resistance to chemicals, oils and gasoline than traditional polyester and polyurethane powders.

TECHNICAL DATA

Spraying	Variants -00, -07 and -13 are suitable for both tribo charging and corona charging sprays. Variants -02 and -09 are suitable only for corona charging sprays. Variant -29 has improved out-gassing features.
Colours	Available in colours according to RAL, NCS or other colour cards.
Gloss 60°	PUR 8455 - gloss PUR 8456 - semigloss PUR 8457 - matt
Solids	100%
Specific gravity	abt. 1,6 kg/dm ³ depending on colour
Spreading rate	10 - 15 m ² /kg depending on the film thickness
Film thickness	The recommended film thickness is 60 - 100 µm.
Curing time	15 min/200°C (metal temperature)
Packages	20 kg
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 STEEL: Degreasing and zinc phosphating or alternatively a suitable conversion treatment.

ALUMINIUM: Degreasing and chromating or alternatively a suitable conversion treatment.

FILM PROPERTIES

Substrate cold-rolled steel (100 x 300 x 0.6 mm). Stoving 15 min/200°C, film thickness 60 - 70 µm. Testing 1 h after stoving:

Physical properties

Impact resistance (ASTM D 2794; 15.9 mm diameter)

- direct

80 kgcm

Adhesion (cross-cut test, EN ISO 2409)

GT 0

Flexibility (Erichsen, ISO 1520)

over 3 mm

Resistance to chemicals

Tested according to ISO 2812-4:2007 spotting methods, exposure time 8 h / +23 °C.

Isopropanol

No change

Engine oil

No change

10 % HCl solution

No change

10 % NaOH solution

No change

Anti-graffiti propertiesTypeDetergent

Permanent marker

Graffiti remover*, denatured alcohol, isopropanol, acetone

Spray paint**

Graffiti remover*, denatured alcohol, isopropanol, acetone*

* Commercial graffiti removers were used in the tests, but the suitability of each graffiti remover / other detergent must be tested before actual use.

** Alkyd paint

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