

NT Mixed Powder EP/PE 5873

**Efficient low temperature mixed powder coat with coarse texture appearance as decorative coating for interior use
silk gloss to gloss**

Basis

A combination of polyester- and epoxy resin

Colors

All common color systems

Gloss grade

Silk gloss to gloss

Properties

- very good adhesion on all common metallic substrates
- high surface hardness at good mechanical parameters
- covers up uneven surfaces and substrate faults
- after full curing / cross-linking, the paint film is physiologically safe

Field of application

As a decorative interior coating on e.g. steel furniture, shelving, light frames, wire goods, tool-boxes, interior doors, fire extinguishers, heaters, computer housing, machine parts, furniture fittings, shop design, transport trucks, microwave ovens, etc. In the case of secondary equipment, limited exterior use is possible.

Technical data

Density

1.45 to 1.70 g/cm³ ¹⁾
(in accordance with DIN ISO 8130-2)

Theoretical coverage

approx. 635 m²/kg ¹⁾
(with 1 µm dry film thickness)

Grain distribution

< 11 %	< 10 µm
35 to 50 %	< 32 µm
> 85 %	< 90 µm

(laser measuring instrument)

Cross-cut test

Gt 0 C
(in accordance with DIN EN ISO 2409)

Erichsen cupping

≥ 3 mm
(in accordance with DIN EN ISO 1520)

Salt spray test

> 250 h
(in accordance with DIN EN ISO 9227-NSS)

Condensation water test

> 250 h
(in accordance with DIN EN ISO 6270-2)

Impact test

reverse: ≥ 5 ip
direct: ≥ 20 ip
(in accordance with ASTM D 2794-69)

Labelling

See current safety data sheet

1) depending on color

Coating recommendation

Substrates ¹⁾	Prime coat	Top coat ²⁾
Aluminum preferably yellow- or green-chromated (in accordance with DIN EN 12487) or chromium-free no-rinse pre-treatment Steel preferably iron or zinc-phosphated Cast iron Galvanized steel etc.	n/a	NT Mixed Powder EP/PE 5873 80 to 100 µm

1) Generally, the substrate must be free from grease, oil, separating and drawing agents as well as corrosion products and other impurities (that especially applies to the use of directly fired gasovens) and pre-treated according to the corrosion protection requirements.

2) For the above pre-treated substrates one coating must be applied.

Process

Compatibility

Different batches or powder coat qualities cannot always be mixed / are not always compatible to one another. Surface defects such as gloss reduction, specks, crater, orange peel effect, etc., may result from incompatibility. To be sure, appropriate tests shall be carried out before application.

Application temperature

15 to 25 °C

Air humidity

< 75 % r. h.

Application

Generally, make sure the substrate is grounded properly. The fluidizing, conveying and dosing air must be free from oil and condensation water. In order to obtain a uniform coating quality, a constant fresh / recovered powder ratio should be maintained. The recovery powder portion in the circulation system should normally be less than 35 %. When processing metallic powder coats, special processing instructions must be followed. Also refer to "Processing Instructions for Brillux Metallic - Powder Coats". Please also refer to our Technical Information "Textured Powder Paints – Important information on the use of textured powder paints".

Corona application

Depending on geometry of parts and application use corresponding coating-programs (as the case may be with utilisation of limitation of spraying current)

For application-systems without limitation of spraying current:

voltage:

70 to 100 kV

(in the case of first coat)

40 to 50 kV

(in the case of overcoating)

Tribo application

possible

Curing conditions

duration: object temperature:

30 to 60 min. at 140 °C

15 to 40 min. at 150 °C

10 to 30 min. at 160 °C

7 to 20 min. at 170 °C

5 to 15 min. at 180 °C

Packaging

20 kg, 500 kg (25 x 20 kg)
Further container sizes available
upon request.

Storage

6 month after receipt.
Store in original closed container,
dry and at room temperature (max.
25 °C). Protect against heat and
direct sunlight.

Remark

This Technical Data Sheet is
based on intense development
work and many years of
practical experience. The
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As soon as a new edition of this
Technical Data Sheet is issued,
the previous specifications
become invalid.
If you need the current version,
please contact your Brillux
consultant.

Version 4

Brillux Industrial Coatings
Otto-Hahn-Str. 14
59423 Unna
Germany
Phone +49 (0)2303 8805-0
Fax +49 (0)2303 8805-119
www.brillux-industrial-coatings.com
info@brillux-industrial-coatings.com