

Universal Polyester Powder 5917

Universal-use, silk-matt coating powder without circulation stability.

Basis

Polyester resin

Colors

All colors according to RAL.
Further colors and special metallic effects upon request.

Depending on the relevant process, color deviations are possible. Prechecking by the user is required.

Gloss grade

Silk-matt, 25 to 35 GU/60°
(in accordance with DIN EN ISO 2813)

Properties

- very good weather resistance
- very high gloss and color stability
- good corrosion protection
- high degree of surface hardness
- good mechanical values
- very good flow properties
- very good adhesion on all common metallic substrates
- not circulation stable
- due to the material-specific properties, film thicknesses > 100 µm are required
- once fully cured, the paint film is physiologically safe

Field of application

Interior and exterior coatings meeting the highest qualitative and optical demands, e.g. construction machines, fence systems, fire-proof doors, garden furniture, sound insulation walls, hospital beds, lights, cash boxes, safes, vending machines etc.

Technical data

Density

1.45 to 1.65 g/ml ¹⁾
(in accordance with DIN ISO 8130-2)

Theoretical coverage

approx. 645 m²/kg ¹⁾
(with 1 µm)

Grain distribution

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

(laser measuring instrument)

Cross-hatch

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

Erichsen cupping test

≥ 5 mm (in accordance with DIN EN ISO 1520)

Buchholz hardness

≥ 80 (in accordance with DIN EN ISO 2815)

Pencil hardness

2 H (Wolff Wilborn Type 291)

Salt spray test

> 1.000 h ²⁾
(in accordance with DIN EN ISO 9227-NSS)

Condensation water test

> 1.000 h ²⁾
(in accordance with DIN EN ISO 6270-2)

Accelerated weathering QUV-B/SE

after 300 h residual gloss ≥ 50 %
of initial gloss
(in accordance with DIN EN ISO 11507)

Labelling

See current safety data sheet

1) depending on color

2) on chromated aluminium substrate

Coating recommendation

Substrates ¹⁾	Prime coat ²⁾	Top coat ³⁾
Aluminum preferably yellow- or green-chromated (according to DIN 50939) or chromium-free no-rinse pretreatment Steel preferably iron or zinc-phosphated Cast iron Galvanized steel etc.	Corro-Protect EP 5816 Light grey 60 to 80 µm	Universal Polyester Powder 5917 100 to 120 µm ⁴⁾

- 1) Generally, the substrate shall be free from grease, oil, separating and drawing agents as well as corrosion products and other impurities, and pretreated according to the corrosion protection requirements.
- 2) In order to obtain an optimum adhesion in the case of a double-layer coating system in the powder area, the powder primer may only be precured. An object temperature of 110–130°C is recommended for this at a holding time of 8 to 10 minutes. If the prime coat is fully cured, adhesion problems may occur.
- 3) Or single layer, provided that substrate has been pretreated accordingly.
- 4) depending on color

Process

Compatibility

Different batches or coating powders cannot always be mixed and are not always compatible to one another. Surface defects such as gloss reduction, specks, crater, orange peel effect, etc., may result from incompatibility.

To avoid a separation of the texture giving ingredients, we suggest the application with a fluidized container. If no fluid container is available, it must be examined whether processing directly from the box with activated vibration function is possible.

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.

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

not possible

Curing conditions

duration:	object temperature:
15 to 35 min.	at 180 °C
12 to 25 min.	at 190 °C
10 to 15 min.	at 200 °C

Packaging

20 kg

Storage

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

Remark

This Technical Data Sheet is
based on intense development
work and many years of prac-
tical experience. The contents
do not constitute any contractual
relationship. The user/buyer is
not released from his/her
obligation to test our products for
suitability for the intended
application. In addition, our
General Terms and Conditions
shall apply.

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 5

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