

Easy to clean Powder PU 5980

Particularly easy to clean coating powder with a polyurethane base for both interior and exterior use

Basis

Polyurethane

Colors

All common color systems

Gloss grade

Gloss, > 70 GU/60°
(in accordance with
DIN EN ISO 2813)

Properties

- excellent easy-to-clean properties
- excellent anti-sticking properties
- easy removal of dirt and microorganisms
- excellent chemical and solvent resistance
- very high degree of surface hardness
- very good mechanical values
- good gloss and color stability
- good weather resistance
- tribo-compatible
- once fully cured, the paint film is physiologically safe
- no separation during curing
- for metallic substrates (use suitable prime coat on galvanized substrates)

Field of Application

The material is perfect for all areas making the highest demands on cleanability, anti-sticking properties and a high degree of chemical resistance, e.g. facade coating, machine parts, steel- and laboratory furniture, fittings, shelving, microwaves, hospital furniture, solariums, fitness machines, profiles.

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

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

Buchholz hardness

≥ 125
(in accordance with
DIN EN ISO 2815)

Pencil hardness

2 to 3 H
(Wolff Wilborn Type 291)

Salt spray test

> 250 h ²⁾
(in accordance with
DIN EN ISO 9227-NSS)

Condensation water test

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

Accelerated weathering Xenon

after 600 h residual gloss ≥ 50 %
of initial gloss (in accordance
with DIN EN ISO 11341)

Impact test

reverse: ≥ 20 ip
direct: ≥ 40 ip
(in accordance with
ASTM D 2794-69)

Labeling

See current safety data sheet

1) depending on color

2) on iron phosphated Bonder-panel

Coating suggestion

| Substrates ¹⁾ | Prime coat | Top coat |
|--|-------------------|--|
| <p>Aluminum preferably yellow or green chromated (in accordance with DIN EN 12487) or chromium-free no-rinse pretreatment</p> <p>Steel preferably iron or zinc phosphatized</p> <p>Cast iron</p> <p>Galvanized steel²⁾ and others</p> | n/a ²⁾ | Easy-to-clean Powder PU 5980 60 to 100 µm |

1) Generally, the substrate must be free from grease, oil, isolating and drawing compounds as well as dirt, corrosion products and other pollutants (this applies in particular if directly heated gas furnaces are used) and pretreated according to the corrosion protection requirements.

2) On galvanized steel a suitable prime coat is required.

Process

Compatibility

Different batches and/or powder paint qualities may not be mixable/compatible with each other. Incompatibility may result in surface defects like reduced gloss, pinholes, craters, pebbling, etc. For this reason, appropriate tests must be carried out in advance.

Application temperature

15 to 25 °C

Air humidity

< 75 % r.m.

Application methods

Generally, it must be ensured that the substrate is grounded well. The fluidizing, conveying and dosing air must be free from oil and condensate. To obtain a uniform coating quality, ensure that the fresh/recovered powder ratio is kept at a constant level. The recovered powder portion in the cycle should generally be below 35 %. When processing metallic powder coats, special processing instructions must be followed. Also refer to "Processing Instructions for Brillux Metallic - Powder Coats".

Corona application

voltage:
70 to 100 kV
(in the case of first coat)

Tribo application

Is possible

Curing conditions

duration: object
temperature
35 to 50 min. at 170 °C
20 to 35 min. at 180 °C
10 to 25 min. at 190 °C
8 to 20 min. at 200 °C

Packaging

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

Storage

1 year after receipt of product.
Store in original closed container, dry and at room temperature (max. 25°C).
Protect the container from sources of heat and direct sunlight.

Remark

This Technical Data Sheet is based on intense development work and many years of practical 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 3

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