

TECHNICAL DATA SHEET

Type of coating PF - POLYESTER POWDER COATINGS QUALICOAT P-1381

Color **RAL 1016**

PF612/0/3182/06 Symbol

Surface Smooth Semi-gloss Gloss

- Outdoor, facade application Characteristics

- High mechanical resistance - High weather resistance - High UV-light resistance - High chalking resistance - High covering power

- High decorative and protective effect

Metal facades, aluminum profiles, windows, doors, gates and frames and many more **Applications**

Fine powder suitable for electrostatic spray (corona) and tribocharging (tribo) **Powder properties** Particle size (Malvern)

> 1,517 Density (g/cm³)

ISO 8130-2

 \sim 8 by the film thickness 80 μm i 100 % use of powder coating Theoretical coverage (m²/kg)

24 months from the date of production, in the orginal, unopened package, keep Storage stability away from heat sources, at temperatures at 5-25°C, protect from moisture.

No direct sun exposure. The product should be stay at ambient temperature (paint

shop) 12h before use.

Coating film

tested in lab conditions on: chromated aluminium panel 0,8 mm AlMg1 **Thickness**

ISO 2808

Gloss (60°)

ISO 28131 VISUAL²

Cross cut

ISO 2409

Mandrel bending

ISO 1519

Erichsen cupping

ISO 1520

Impact resistance ISO 6272-1

Buchholz hardness >80

ISO 2815³

Pencil hardness

ISO 15184³

80 - 100 μm max.110 μm

70 ±7 gloss units

>5 mm

3H

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<5 mm

0

>50 cm*1kg front >50 cm*1kg rewers

(1) applies to smooth and no metallic coatings film

(2) applies to structural and metallic coatings film(3) not applicable structural coatings film



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Surface pretreatment

- The overall quality of the coating film depends on the type and quality of the pretreatment.
- Surfaces must be dry, degreased and free from rust and other contaminants.
- In order to improve coating adhesion to the surface and improve resistance it is recommended: aluminium - chromating, chrome-free pretreatment or anodic pretreatment. steel and galvanized steel - individual choice of surface pretreatment (e.g. phosphating). However, in order to achieve optimum results, you must follow the instructions and recommendations of the pretreatment material manufacturer.

Application

- Electrostatic gun corona (recommended voltage is 60 kV) or tribo gun, with the exception of metallic effects should be applied only technology corona.
- Application parameters depend on the geometric shapes of the detail and the film thickness to be reached. Responsibility for the correct application parameters rests on the coating applicators.
- Despite careful production methods, may be small deviation color and effect deviation between the different manufacturing batches (it typical for powder coatings).
- It is recommended to do the entire order on the same equipment, with the same application parameters.
- If it is possible to apply the powder coating from one production batch.
- Take care of proper grounding of application equipment and coated elements (color/effect will be repeatable).
- Control the air speed during application of powder coatings.
- Keep an appropriate distance: the gun coated elements
- Keep a uniform thickness of coating.
- Not be mixed with other powder coatings.

Curing conditions

- Curing time recommendation in a convection oven: 180°C/15 min. (object temperature).
- Must be strictly observed parameters of stoving the coating film to ensure that the full mechanical and chemical
- Suitability of the product for stoving in gas ovens and radiant ovens should be verified may be a significant difference in color - perform a comparative test with the standard color (please contact us for details).

	Curing conditions (object temp.)	
Object temp. [°C]	minimal [min.]	maximal [min.]
200	10	15
190	12	20
180	15	25

Approvals

- QUALICOAT P-1381, Class 1, Gloss category 2.
- The powder coatings are in compliance with 2011/65/EC and 2015/863/EC (so called ROHS).
- Heavy metal and TGiC free.

Comments

- Powder-coated details should be packaged after being completely cooled down to ambient temperature, into appropriate packaging materials previously tested by the user.
- Packaged details should be stored under cover to avoid condensation, which may result in traces on the finished coating.
- In the case of cleaning powder coated surfaces it is necessary strict compliance with the Technical recommendations 01: Cleaning of powder coated surfaces.

Safety Data Sheet

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The above values may vary depending on the type of surface pretreament, color, gloss, texture, etc.

All informations included in this card are based on our experience and actual knowlegde and do not release the user from carrying out their own tests. If in doubt please contact us for details. Having no influence on the use and application conditions, we can take responsibility only for the quality of any the product and ensure that it fits to our standards.

This Technical Data Sheet is revised periodically. EKO-COLOR reserves the right to change specifications without notice If necessary, our sales department will confirm the validity of this document.



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