

Reveal Folio D

PRODUCT DESCRIPTION

Reveal Folio is a powder coating designed using the most advanced formulating and manufacturing technologies, to minimise coating thickness whilst still meeting the stringent industry standards for mechanical, corrosion and chemical protection. It also offers excellent efficiency and state of the art mileage performance, which in turn, can provide a significantly lower carbon footprint compared to a standard hybrid powder coating.

Application areas

This product is recommended for interior use on surfaces exposed to a dry environment.

Typical application areas:
Refrigerators
Freezers
Small kitchen appliances

POWDER PROPERTIES

Property	Standard	Result
Specific gravity		Typically $1.7 \pm 0.1 \text{ g/cm}^3$

Storage

Keep in a dry cool area. Maximum temperature 25 °C. Maximum relative humidity 60 %. If stored longer than 12 months a quality test must be performed.

APPLICATION

Pretreatment

The overall performance of the coating system is largely dependent on the nature of the substrate and the type and quality of the pretreatment. For optimal results, it is recommended to follow the pretreatment supplier's instructions and recommendations.

Powder application

Curing schedule	Object temperature	Time
Reveal Folio D8	180 °C	10 minutes

Other curing schedules can be created upon technical approval.

Recommended film thickness (µm): 25-40

Equipment

Suitable for Corona or Tribo charging equipment.

APPEARANCE

Colour	Available in white and light colours.	
Gloss	EN ISO 2813 (60°)	75-95
Finish	Smooth finish	

If the significant surface is too small or unsuitable for the gloss to be measured with the glossmeter, the gloss should be compared visually with the reference sample (from the same viewing angle).

Other colours and gloss levels are available upon technical approval.

PERFORMANCE

The technical data provided below are typical for this product when applied as follows:

Substrate	Iron-phosphated cold rolled steel
Substrate thickness (mm)	0.8
Film thickness (µm)	25-35

Typical values when tested.

Property	Standard	Result
Theoretical yield*		Approximately 17.6 m ² /kg at recommended film thickness of 30 µm.
Cross-cut test	ISO 2409	Gt 0
Pencil hardness test	ASTM D3363-05 (Derwent Graphic)	H
Film hardness	ISO 2815	Indentation resistance according to Buchholz: ≥ 91
Cupping test	ISO 1520	≥ 6 mm
Flexibility, cylindrical mandrel	ISO 1519	≤ 5 mm
Impact resistance	ASTM D2794 (5/8 " ball)	≥ 100 inch-pounds (front and reverse)
Resistance to food	DIN 68861-1 , 24 h	Citric acid - No change 5 - 10 % vinegar - No change Beer - No change Cola - No change Blackcurrant, orange, tomato juice - No change
Resistance to solvent	EN 12720:2009+A1:2013, 15 seconds	100% Isopropanol - No change 96% Ethanol (Ethyl alcohol) - No change
Resistance to neutral salt spray	ASTM B117	No blistering and maximum 1 mm corrosion creep from scratch after 480 hours
Resistance to humid atmospheres	ISO 6270-2	No blistering, maximum 2 mm corrosion creep from scratch.
Hiding power	ASTM 1347-06, CIELAB	Colour change when applied on black vs. a white substrate will typically not exceed dE _{Cielab} of 1 at specified film thickness
Light resistance	ISO 16474-2:2013, Method B, cycle B2	Maximum dE ≤ 1.5 after 240 hours.

* Theoretical yield calculation has been made as a function of total coated area with a uniform film thickness and a 5 % waste for hooks and hangers.

Disclaimer

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Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.