

Reveal Edge+ D HC

PRODUCT DESCRIPTION

Reveal Edge+ is a range of bonded metallic powder coatings developed to provide outstanding appearance and improved mileage performance. The powder can be recycled and also meets industry standards for mechanical and chemical resistance requirements. To ensure efficiency and high performance, the product is designed for thin film applications with high corrosion and fingerprint resistance.

Application areas

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

Typical application areas:

- Refrigerators
- Freezers
- Small kitchen appliances
- Home furniture
- Office furniture
- Cookers
- Dryers

POWDER PROPERTIES

Property	Standard	Result
Specific gravity	Calculated	Typically 1.35±0.05 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 Edge+ D HC	180 °C	10 minutes

Recommended film thickness (µm): 30-40

Equipment

Suitable for Corona charging equipment. Please contact technical authority for Tribo use.

APPEARANCE

Colour Available in a wide variety of metallic colours and effects upon technical approval.

Gloss EN ISO 2813 (20°) 15-30
EN ISO 2813 (60°) 55-90

Finish Smooth

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).

Metallic/special effect powder coatings are more sensitive to variations in application, it is important to consider recommendations given in our Application Guidelines for Metallic Powder Coatings.

PERFORMANCE

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

Substrate Nano pretreated steel panel
Substrate thickness (mm) 0.5
Film thickness (µm) 30-40

Typical values when tested.

Property	Standard	Result
Adhesion	ISO 2409	Cross-cut rating Gt0 (100 % adhesion)
Pencil hardness test	ASTM D3363-05 (Derwent Graphic)	Scratch hardness: ≥ 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) at 30-40 µm
Double layer impact resistance	ASTM D2794 (5/8 " ball)	≥ 100 inch-pounds (front and reverse) at 100 µm
Stain resistance (lemon and tomato juice, olive oil, coke)	ASTM D1308	Maximum 10 % gloss change, dE < 1 after 24 hours
Resistance to neutral salt spray	ISO 9227 ISO 4628-2 ISO 4628-8	No blistering and maximum 2 mm corrosion creep from scratch after 1000 hours
Resistance to detergent	EN 12720:2009+A1:2013	dE ≤ 1 after 200 circles drops and wipe
Resistance to humid atmospheres	ISO 6720-1 ISO 4628-2 ISO 4628-8	No blistering and maximum 2 mm corrosion creep from scratch after 504 hours
Light resistance	ISO 16474-2-2013	Maximum dE ≤ 1.0 Gloss change maximum 5%

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.