Reveal Era U

PRODUCT DESCRIPTION

Reveal Era U is a powder coating specifically designed to meet stringent requirements for harsh outdoor environment. It provides high levels of corrosion resistance, excellent gloss retention and color stability along with aesthetic performance. This powder enables efficient application and provides uniform flow and attractive finish even after recycling.

Application areas

The product is suitable for metal objects exposed to the outdoor harsh environment.

Typical application areas:
Outdoor metal enclosure
Electrical cabinet and transformer
Solar energy equipment
Outdoor city facility
Exterior lighting fixtures

POWDER PROPERTIES

Property	Standard	Result
Specific gravity	Calculated	1.6±0.2 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 Era U	200°C	10 minutes

Other curing schedules can be created upon technical approval.

Recommended film thickness (µm): ≥60

Equipment

Suitable for Corona or Tribo charging equipment.

This Technical Data Sheet supersedes those previously issued.

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APPEARANCE

Colour Available in a variety of colours

Gloss EN ISO 2813 (60°)

Smooth	28-42
Smooth	80-100
Textured	Visual

Finish Suitable for Smooth, Fine Texture, Coarse Texture, Metallic

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).

Gloss measurements of metallic effect coatings can show deviation from original levels specified in this document and visual comparison with the reference sample is recommended.

PERFORMANCE

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

Substrate	Chrome-free treated aluminium panels
Substrate thickness (mm)	0.8
Film thickness (µm)	60-80 (CTX: 80-120)

Typical values when tested.

Property	Standard	Result
Adhesion	EN ISO 2409	Cross-cut rating Gt0 (100 % adhesion)
Impact resistance	GB/T 5237.4	Passes direct impact depth of 2.8 mm, without detachment after tape pull test
Wet adhesion (Boiling water)	Qualicoat Standard Clause 2.4.2	Cross-cut rating Gt0 (100 % adhesion)
Flexibility	EN ISO 1519	Passes 5 mm cylindrical mandrel bend test without detachment after tape pull test.
Film hardness	ISO 15184	≥HB
Resistance to neutral salt spray	ISO 9227 ISO 4628-2 ISO 4628-8	No blistering and maximum 1.5 mm corrosion creep from scribe after 1440 hours
Resistance to humid atmospheres	EN ISO 6270-2 ISO 4628-2 ISO 4628-8	No blistering and maximum 1.5 mm corrosion creep from scribe after 1440 hours
Accelerated weathering	ISO 16474-3	Cycle: 4 hours at 50 ºC UV and 4 hours at 40 ºC condensation. No chalking, excellent gloss retention and colour stability after 450 hours testing
Solvent resistance	Internal (Scrub film by cotton cloth with alcohol for 50 times)	Show no sign of organic coating dissolved
High temperature resistance	IEC 60068-2-2	After 48h at 120°C, no blistering, no peeling off, no crack, no chalking, adhesion Gt0.
Low temperature resistance	IEC 60068-2-1	After 48h at -40°C, no blistering, no peeling off, no crack, no chalking, adhesion Gt0.
Cyclic ageing test	ISO 12944-6	Passes the requirement of C5H test regime 2 of ISO 12944-6
Cyclic ageing test	Modified ISO 12944-6 (test without scribe)	After 3360 hours of exposure, no blistering, rusting, cracking nor flaking. Cross-cut adhesion test rating Gt0 - Gt2

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Sustainability

Powder coating is applied in air-and-powder mix in a strictly controlled factory process using electrostatic gun and a high temperature curing oven to create film. Virtually no VOCs are released in the process compared to traditional liquid paints. Unused or oversprayed powder can be recycled with minimal wastage. In addition, all Jotun Powder Coatings' products do not contain intentionally added lead.

Disclaimer

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

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.

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