Reveal Electron D

PRODUCT DESCRIPTION

This powder coating is engineered to deliver static dissipative properties while maintaining high standards of protective and functional performance. Reveal Electron's distinctive formulation enables controlled dissipation of electrostatic charges, allowing it to be safely discharged to ground/earth at a slower rate than conventional conductive materials—safeguarding sensitive equipment and components.

The coated surface provides dissipative properties with uniform finish and a clean appearance, free from black spots.

Application areas

This product is recommended for interior use only.

Typical application areas:
Metal workbenches
Workstations and flooring
Shelving and racking
Storage organizers
Electronic enclosures
Filing cabinets
Server rooms and flooring
Parts of grain machines
Clean room equipment
HVAC systems, ducts, filters and other equipment

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.

This Technical Data Sheet supersedes those previously issued.

The Technical Data Sheet (TDS) is recommended to be read in conjunction with the Safety Data Sheet (SDS) and the Application Guide (AG) for this product. For your nearest local Jotun office, please visit our website at www.jotun.com

Powder application

Curing schedule	Object temperature	Time
Reveal Electron D0	200 °C	10 minutes
Reveal Electron D8	180 °C	10 minutes
Reveal Electron D6	160 °C	10 minutes

Recommended film thickness (µm): 50-100

Product offers dissipative properties in a wide range of film thicknesses. We recommend to verify resistivity/ conductivity when DFT exceeds the stated range.

Surface resistance may change depending on the coating colour/shade.

Please consult your local Jotun representative for further details.

Equipment

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

APPEARANCE

Colour Available in a wide range of colours.

Gloss ISO 2813 (60°)

Smooth	60-90
Textured	Visual

Finish Smooth and textured finishes

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).

PERFORMANCE

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

Substrate	Iron-phosphated cold rolled steel panels
Substrate thickness (mm)	0.8
Film thickness (µm)	50-100

Typical values when tested.

Property	Standard	Result
Cupping test	EN ISO 1520	Indentation depth in excess of 5 mm without film cracking
Flexibility	EN ISO 1519 (conical mandrel)	Passes 3 mm mandrel diameter without cracking
Impact resistance	ASTM D2794 (5/8 '' ball)	More than 100/80 inch-pounds (front/ reverse) without cracking
Adhesion (Cross-cut test)	ISO 2409	Cross-cut rating Gt0 (100 % adhesion)
Film hardness	EN ISO 2815	Indentation resistance according to Buchholz: >80
Scratch hardness test	ISO 4586-2	> 1.0 N

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Resistance to neutral salt spray	ISO 9227 ISO 4628-2 ISO 4628-8	No blistering and maximum 3 mm corrosion creep from scratch after 240 hours
Resistance to humid atmospheres	EN ISO 6270-2 ISO 4628-2 ISO 4628-8	No blistering and maximum 2 mm corrosion creep from scribe after 504 hours
Surface resistivity	ASTM D257 (DC 100 V)	1x10^5-1x10^11 Ω/sq depending on colour

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 data given 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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