

Guard Style D

PRODUCT DESCRIPTION

Guard Style D is a range of powder coatings developed with good appearance and colour consistency in mind. The product meets the industry standard with regard to mechanical and chemical properties.

Application areas

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

Typical application areas:

Electrical cabinet and transformer
Shop fittings
Industrial racking systems
Refrigerators
Indoor furniture
Interior lighting
Steel doors
Elevator doors
Machinery enclosures
Safe box
Power tools

POWDER PROPERTIES

Property	Standard	Result
Specific gravity	Calculated	Typically $1.6 \pm 0.2 \text{ g/cm}^3$

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
Guard Style D6	160 °C	10 minutes
Guard Style D8	180 °C	10 minutes
Guard Style D0	200 °C	10 minutes

Other curing schedules can be created upon technical approval.

Recommended film thickness (µm): ≥50

Equipment

Suitable for Corona charging equipment. Products for Tribo charging equipment available upon request.

APPEARANCE

Colour

Available in a wide range of colours.

Gloss

ISO 2813 (60°)

D6

60-89

D8/D0

20-89

Textured:

Visual check against master panels

Finish

Suitable for Smooth, Fine Texture, Coarse Texture

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 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) 50-70

Typical values when tested.

Property	Standard	Result
Adhesion	ISO 2409	Cross-cut rating Gt0 (100 % adhesion)
Cupping test	ISO 1520	≥ 5 mm
Impact resistance	ASTM D2794 (5/8 " ball) (inch-pounds, front and reverse) Gloss 20-59 Gloss 60-89 Fine texture Coarse texture	40/20 60/60 40/20 40/20
Resistance to neutral salt spray	ISO 9227 ISO 4628-2 ISO 4628-8	No blistering and maximum 1 mm corrosion creep from scribe after 240 hours
Resistance to humid atmospheres	ISO 6270-2 ISO 4628-2 ISO 4628-8	No blistering and maximum 2 mm corrosion creep from scribe after 504 hours

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.