

Guard Endure D

PRODUCT DESCRIPTION

Guard Endure D is a range of powder coatings that has been specifically developed to have improved scratch, mar and abrasion resistance properties to help keep coated items looking better for longer. It will also meet industry standards with regard to all other mechanical and chemical properties.

Application areas

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

Typical application areas:
Office furniture
Home furniture
Commercial furniture

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 Endure D8	180 °C	10 minutes
	200 °C	5 minutes
Guard Endure D6	160 °C	10 minutes
	180 °C	5 minutes

Other curing schedules can be created upon technical approval.

Recommended film thickness (µm): > 55

Equipment

Suitable for Corona or Tribo charging equipment.

APPEARANCE

Colour	The product is available in a wide variety of RAL and NCS colours.	
Gloss	ISO 2813 (60°)	
	Guard Endure D6	60-85
	Guard Endure D8	25-85
Finish	Suitable for 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).

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)	55-70

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: ≥ 2H Gouge hardness: ≥ 4H
Scratch resistance	ISO 1518-1 / SIS 83 91 17	≤ 0.5 mm wide scratch at 3 N load having a hemispherical hard-metal tip of radius 0.5 mm
Crockmeter Mar test	Polishing paper type 9MIC, 281Q Wetodry from 3M, gloss at 20°	Maximum 50 % gloss change (5 double rubs)
Cupping test	ISO 1520	≥ 6 mm
Impact resistance	ASTM D2794 (5/8 " ball) (inch-pounds, front and reverse) Guard Endure D6 Guard Endure D8 (Gloss: 25-59) Guard Endure D8 (Gloss: 60-85)	60/60 40/20 60/60
Resistance to neutral salt spray	ISO 9227	No blistering and maximum 1 mm corrosion creep from scribe after 240 hours
Resistance to humid atmospheres	ISO 6270-2	No blistering and maximum 2 mm corrosion creep from scribe after 504 hours

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.

Technical Data Sheet

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