Guard Edge D

PRODUCT DESCRIPTION

Guard Edge D is a range of dry-blended metallic powder coatings, developed with the designer in mind, to provide a wide variety of colours and finishes. The product meets industry standards in terms of mechanical and chemical resistance requirements.

Application areas

This product is recommended for interior use.

Typical application areas:
Refrigerators
Freezers
Small kitchen appliances
Home furniture
Office furniture
Shop fittings and lighting, sports equipment

POWDER PROPERTIES

Property	Standard	Result
Specific gravity	Calculated	Typically 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
Guard Edge D6	160°C	10 minutes
Guard Edge D8	180 °C	10 minutes
Guard Edge D0	200 °C	10 minutes

Other curing schedules can be created upon technical approval.

Recommended film thickness (µm): > 60
Some sparkling products may require a higher thickness for full hiding depending on substrate.

Equipment

Suitable for Corona charging equipment.

APPEARANCE

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

Gloss Gloss levels are dependent on the effect and finish required.

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).
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	Iron-phosphated cold rolled steel
Substrate thickness (mm)	0.8
Film thickness (µm)	60-80

Typical values when tested.

Property	Standard	Result
Adhesion	ISO 2409	Cross-cut rating Gt0 (100 % adhesion)
Cupping test	ISO 1520	≥5 mm
Pencil hardness test	ASTM D3363-05 (Derwent Graphic)	F
Impact resistance	ASTM D2794 (5/8 '' ball) (inch-pounds, front and reverse) Smooth super gloss and glossy* Smooth semi gloss and matt Smooth super matt Fine texture and coarse texture	 100/80 40/20 20/20 40/20
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
Light resistance	ISO 16474-2:2013, Method B, cycle 2	Maximum dE ≤ 1.5 after 144 hours.
Resistance to food	EN 12720:2009+A1:2013 24 h, liquid	Citric acid - No change 5-10 % vinegar - No change Beer - No change Cola - No change Blackcurrant, orange, tomato juice - No change
Resistance to solvent	EN 12720:2009+A1:2013,15 seconds	100% Isopropanol - No change 96% Ethanol (Ethyl alcohol) - No change
Flexibility, cylindrical mandrel	ISO 1519	≤ 5 mm

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.

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