

Guard Miles+ H

PRODUCT DESCRIPTION

This product is a powder coating designed to provide good appearance, optimised hiding and improved mileage performance. It also offers operational efficiency in terms of uniform powder utilisation that could provide increased productivity and energy savings. Please contact your local sales representative for more information.

No special equipment is required to benefit from Guard Miles+ mileage and hiding properties.

Application areas

This product is recommended for interior use, on surfaces exposed to high temperatures.

Typical application areas:

- Microwave ovens
- Ovens
- Cookers
- Heating radiators
- Heating panels

POWDER PROPERTIES

Property	Standard	Result
Specific gravity		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 Miles+ H8	180 °C	10 minutes
	200 °C	5 minutes
Guard Miles+ H6	160 °C	10 minutes
	180 °C	5 minutes

Other curing schedules can be created upon technical approval.

Recommended film thickness (µm): 40-60

Equipment

Suitable for Corona or Tribo charging equipment.

APPEARANCE

Colour	The product is available in Whites and selected colours (browns, greys, blacks and wine red). Other colours are available upon technical approval.	
Gloss	EN ISO 2813 (60°)	75-95
Finish	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)	40-60

Typical values when tested.

Property	Standard	Result
Theoretical yield*		Approximately 15 m ² /kg at recommended film thickness of 40 µm.
Cross-cut test	ISO 2409	Gt 0
Hiding power	ASTM 1347-06, CIELAB	Colour change when applied on black vs. a white substrate will typically not exceed dE _{Cielab} of 1 at specified film thickness
Pencil hardness test	ASTM D3363-05 (Derwent Graphic)	F
Film hardness	ISO 2815	Indentation resistance according to Buchholz: ≥ 91
Cupping test	ISO 1520	≥ 6 mm
Flexibility, cylindrical mandrel	ISO 1519	≤ 5 mm
Impact resistance	ASTM D2794 (5/8 " ball)	≥ 100 inch-pounds (front and reverse)
Heat resistance	300 hours at 120 °C	Maximum colour change of dE ≤ 1.5 (db ≤ 1.0)
Resistance to food	DIN 68861-1 , 24 h	Citric acid - No change 5 - 10 % vinegar - No change Beer - No change Cola - No change Blackcurrant, orange, tomato juice - No change
Resistance to solvent	Quick test: 15 seconds exposure with a wet sponge and mild pressure	100 % Isopropanol - No change 48 % and 95 % Ethanol (Ethyl alcohol) - No change
Resistance to neutral salt spray	ASTM B117	No blistering and maximum 1 mm corrosion creep from scribe after 240 hours
Resistance to humid atmospheres	ISO 6270-2	No blistering, maximum 2 mm corrosion creep from scratch.

Technical Data Sheet

Guard Miles+ H



Jotun Protects Property

Light resistance	ISO 16474-2:2013, Method B, cycle B2	Maximum dE ≤ 1.5 after 144 hours.
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** Theoretical yield calculation has been made as a function of total coated area with a uniform film thickness and a 5 % waste for hooks and hangers.*

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.