

Guard Miles+ E T

PRODUCT DESCRIPTION

This is a powder coating that is designed to provide good appearance, optimised hiding, and improved mileage performance. It also offers operational efficiency in terms of uniform powder utilisation.

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

Application areas

This product is recommended for exterior use.

Typical application areas:
Air conditioners

POWDER PROPERTIES

Property	Standard	Result
Specific gravity		Typically 1.7±0.1 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 is recommended.

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+ E9 T	190 °C	10 minutes
Guard Miles+ E6 T	160 °C	10 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 light colours.*	
Gloss	EN ISO 2813 (60°)	60-90*
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 colours and gloss levels are available upon technical approval.

PERFORMANCE

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

Substrate	Zinc phosphated cold rolled steel or galvanised steel
Substrate thickness (mm)	0.8 (Cold rolled steel) / 0.9 (Galvanised steel)
Film thickness (µm)	40-60

Typical values when tested.

Property	Standard	Result
Pencil hardness test	ASTM D3363-05	Scratch hardness: Minimum H
Film hardness	EN ISO 2815	Indentation resistance according to Buchholz: > 80
Cupping test (Erichssen)	ISO 1520	≥ 5 mm
Impact resistance	ASTM D2794 (5/8 " ball)	100/80 inch-pounds (front and reverse)
Adhesion	ISO 2409	Cross-cut rating Gt0 (100 % adhesion)
Acid resistance	ISO 2812-1	120 hours, 5 % H ₂ SO ₄ - No loss of gloss
Alkaline resistance	ISO 2812	NaOH 1 %, 120 hours – No significant change of gloss
Resistance to neutral salt spray	ASTM B117	No blistering and maximum 1 mm corrosion creep from scratch after 500 hours
Resistance to humid atmospheres	ISO 6270-2	No blistering and maximum 2 mm corrosion creep from scratch after 504 hours
QUV B	ASTM G154 (Lamp: UVB-313, Intensity of radiation – solar eye 0,75 W/m ² - 4 h lightening - 4 h condensation cycle)	50 % gloss retention after 200 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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