

Guard Classic E T

PRODUCT DESCRIPTION

This is a powder coating that is designed to meet the basic requirements of the outdoor appliance industry as well as general industrial outdoor use. It offers a good balance of economy and aesthetic performance along with corrosion, chemical and mechanical protection.

Application areas

This product is recommended for exterior use.

Typical application areas:
Air conditioners

POWDER PROPERTIES

Property	Standard	Result
Specific gravity		Typically 1.6 - 1.9 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 Classic E0	200 °C	10 minutes
Guard Classic E9	190 °C	10 minutes
Guard Classic E8	180 °C	10 minutes

Other curing schedules can be created upon technical approval.

Recommended film thickness (µm): 60-90

Equipment

Suitable for Corona or Tribo charging equipment.

APPEARANCE

Colour

The product is available in a variety of colours.

Gloss	EN ISO 2813 (60°)	20-40 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).

PERFORMANCE

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

Substrate	Zinc phosphate cold rolled steel
Substrate thickness (mm)	0.8
Film thickness (µm)	60-90

Typical values when tested.

Property	Standard	Result
Adhesion	ISO 2409	Cross-cut rating Gt0 (100 % adhesion)
Film hardness	EN ISO 2815	Indentation resistance according to Buchholz: >80
Cupping test	ISO 1520	≥ 5 mm
Impact resistance	ASTM D2794 (5/8 " ball)	Gloss > 60 - 100/80 inch-pounds (front and reverse) Gloss < 60 - 80/40 inch-pounds (front and reverse)
Acid resistance	ISO 2812-1	120 hours, 5 % H ₂ SO ₄ - No significant change 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 2 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 500 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

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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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