

# **Guard Endure E S T**

#### PRODUCT DESCRIPTION

Guard Endure E S T is a range of TGIC-containing powder coatings specifically developed to have superior scratch resistance to help keep coated items remaining flawless for longer. It will also meet industry standards with regard to all other mechanical and chemical properties.

### **Application areas**

This product is recommended for exterior use.

Typical application areas: Air conditioners Gas cylinder

#### **POWDER PROPERTIES**

Property	Standard	Result
Specific gravity	Calculated	Typically 1.6 $\pm$ 0.2 g/cm <sup>3</sup>

# **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 E8 T	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.

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This Technical Data Sheet supersedes those previously issued.

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**Gloss** EN ISO 2813 (60°)

E8T

60-89

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).

# **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)
Pencil hardness test	ASTM D3363-05 (Derwent Graphic)	Scratch hardness : ≥ 2H Gouge hardness : ≥ 4H
Cupping test	ISO 1520	≥ 6 mm
Impact resistance	ASTM D2794 (5/8 " ball) (inch-pounds, front and reverse) E8T	100/100
Resistance to neutral salt spray	ISO 9227	No blistering and maximum 2 mm corrosion creep from scribe after 504 hours
Resistance to humid atmospheres	ISO 6270-2	No blistering and maximum 2 mm corrosion creep from scribe after 504 hours
Accelerated weathering	ISO 16474-3	Cycle: 4 hours at 50 °C UV-B and 4 hours at 40 °C condensation. No chalking, good gloss retention and colour stability after 200 hours testing.
Scratch resistance	ISO 1518-1 / SIS 83 91 17	≤ 0.5 mm wide scratch at 5 N load having a hemispherical hard-metal tip of radius 0.5 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.

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