

## Guard Edge E H

### PRODUCT DESCRIPTION

Guard Edge E H is a range of TGIC-free, 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 exterior use.

Typical application areas:  
Outdoor furniture  
Outdoor lighting  
Fixtures  
Park fixtures

### POWDER PROPERTIES

Property	Standard	Result
Specific gravity	Calculated	1.4±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 Edge E6	160 °C	10 minutes
Guard Edge E8	180 °C	10 minutes
Guard Edge E9	190 °C	10 minutes

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

#### Equipment

Suitable for Corona charging equipment. Products for Tribo charging equipment available upon request.

## 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** Smooth and textured finishes

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

Typical values when tested.

Property	Standard	Result
<b>Adhesion</b>	ISO 2409	Cross-cut rating Gt0 (100 % adhesion)
<b>Cupping test</b>	ISO 1520	≥ 5 mm
<b>Impact resistance</b>	ASTM D2794 (5/8 " ball) (inch-pounds, front and reverse) Smooth, gloss 20-39 Smooth, gloss 40-59 Smooth, gloss 60-89 Fine texture Coarse texture	40/20 60/40 100/80 40/20 40/20
<b>Resistance to neutral salt spray</b>	ISO 9227 ISO 4628-2 ISO 4628-8	No blistering and maximum 2 mm corrosion creep from scratch after 504 hours
<b>Resistance to humid atmospheres</b>	ISO 6270-2 ISO 4628-2 ISO 4628-8	No blistering and maximum 2 mm corrosion creep from scratch after 504 hours
<b>Accelerated weathering</b>	ISO 16474-3	Cycle: 4 hours Solar radiation at 50 °C UV and 4 hours at 40 °C condensation. Solar radiation intensity: 0.75W/m <sup>2</sup> /nm. No chalking, excellent gloss retention and colour stability after 200 hours testing.

## 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

# Technical Data Sheet

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will prevail.