

Guard Shield

PRODUCT DESCRIPTION

Guard Shield is a range of powder coatings that combine good appearance with excellent protection performance in aggressive environments where mechanical and chemical resistance is required. The product offers a high level of surface hardness and resistance to wear and tear.

Application areas

This product is recommended for interior use only.

Typical application areas:
Heavy duty machinery and tools
Laboratory equipment
Pallet-racks

POWDER PROPERTIES

Property	Standard	Result
Specific gravity	Calculated	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 Shield 0 Gloss <70	200°C	10 minutes
Guard Shield 8 Gloss ≥70	180°C	10 minutes

Recommended film thickness (µm): 60-90

Equipment

Suitable for Corona or Tribo charging equipment.

APPEARANCE

Colour The product is available in a wide assortment of custom-made colours, including RAL and NCS.

Gloss EN ISO 2813 (60°) All gloss levels

Finish Smooth and fine textured finishes.

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) 60-90
Typical values when tested.

Property	Standard	Result
Adhesion	EN ISO 2409 (2 mm)	Cross-cut rating Gt0 (100 % adhesion)
Impact resistance	ASTM D2794 (5/8 " ball) (inch-pounds, front and reverse) Gloss < 60 Gloss > 60	20/20 60/60
Resistance to neutral salt spray	ISO 9227 ISO 4628-2 ISO 4628-8	No blistering and maximum 2 mm corrosion creep from scribe after 504 hours
Resistance to humid atmospheres	ISO 6270-2 ISO 4628-2 ISO 4628-8	No blistering and maximum 2 mm corrosion creep from scribe after 504 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.