

Reveal Era R H

PRODUCT DESCRIPTION

Reveal Era R H is a TGIC-free powder coating specifically designed to meet stringent requirements of the outdoor environment, especially where exposure to high temperatures occurs. It has very good weathering performance and provides longevity to the outdoor fixtures by ensuring high levels of gloss retention, colour stability and corrosion protection along with aesthetics. This powder enables efficient application and provides uniform flow and attractive finish even after recycling.

Application areas

The overall excellent properties and attractive appearance of this product make it suitable for application to other ferrous and non-ferrous substrates. This product is suitable for interior and exterior use.

Typical application areas:
Outdoor metal enclosure
Electrical cabinet and transformer
Solar energy equipment
Outdoor city facility
Exterior lighting fixtures

POWDER PROPERTIES

Property	Standard	Result
Specific gravity	Calculated	Typically 1.5±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
Reveal Era R H	180°C	10 minutes

Recommended film thickness (µm): ≥ 60

Equipment

Suitable for Corona Equipment. Please contact technical authority for Tribo use.

APPEARANCE

Colour	Selected range of RAL colours. Additional colours can be made upon request.		
Gloss	EN ISO 2813 (60°)	Smooth:	
		83H	35±10
		85H	55±10
		87H	75±10
		88H	≥85
		Texture: Visual check against master panels	
Finish	Smooth, Fine texture, Coarse texture		

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	Chrome-free treated aluminium panels
Substrate thickness (mm)	0.8
Film thickness (µm)	60-80
Typical values when tested.	

Property	Standard	Result
Adhesion	EN ISO 2409	Cross-cut rating Gt0 (100 % adhesion)
Impact resistance	GB/T 1732	Passes direct impact ≥50kg/cm without detachment after tape pull test
Flexibility	EN ISO 1519	Passes 5 mm cylindrical mandrel bend test without detachment after tape pull test.
High temperature resistance	IEC 60068-2-2	No blistering, no cracking, no chalking, cross-cut adhesion rating Gt0 after 168 hours
Low temperature resistance	IEC 60068-2-1	No blistering, no cracking, no chalking, cross-cut adhesion rating Gt0 after 16 hours
Resistance to neutral salt spray	ISO 9227 ISO 4628-2 ISO 4628-8	No blistering and maximum 2 mm corrosion creep from scribe after 1500 hours
Accelerated weathering	ISO 16474-3	No blistering, no cracking, gloss retention >75% after 1000 hours QUV-A test. Color retention follows Qualicoat requirements.
Boiling water resistance	GB/T 5237.4 GB/T 9286	Cross-cut rating Gt0 (100 % adhesion) after 2 hours of exposure
Resistance to humid atmospheres	ISO 6270-2 ISO 4628-2	No blistering, no rusting, no adhesion loss after 1000hrs (without scribe)
Pencil hardness test	GB/T 6739	Smooth ≥B Fine and coarse texture ≥2H

Sustainability

Powder coating is applied in air-and-powder mix in a strictly controlled factory process using electrostatic gun and a high temperature curing oven to create film. Virtually no VOCs are released in the process compared to traditional liquid paints. Unused or oversprayed powder can be recycled with minimal wastage. In addition, all Jotun Powder Coatings' products do not contain intentionally added lead.

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.