

Reveal Era R T

PRODUCT DESCRIPTION

This product is a powder coating specifically designed to meet the requirements of long-term exposure in harsh outdoor environments. It provides excellent corrosion resistance, gloss retention and colour stability as well as very good fingerprint resistance to give an overall excellent aesthetic appearance.

Application areas

The product is suitable for metal objects that need protection at high temperatures.

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	Max 1.7 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

This product can be tailored to customer's requirements and therefore curing schedules will differ. Please consult your Jotun Powder Coatings' representative and the product label on the packaging.

Curing schedule	Object temperature	Time
Reveal Era R	200°C	10 minutes

Other curing schedules can be created upon technical approval.

Recommended film thickness (µm): ≥ 60

Equipment

Suitable for Corona or Tribo charging equipment.

APPEARANCE

Colour	Selected range of RAL colours. Other colours are available upon technical approval.	
Gloss	ISO 2813	10-15
Finish	Fine texture, metallics	

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 5237.4	Passes 2.8 mm impact depth 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	IEC 60068-2-11	No blistering, no cracking, no rusting after 1500 hrs (without scribe)
Acetic acid salt spray resistance	ISO 9227 ISO 4628-2	After 1000 hours testing – maximum 16 mm ² infiltration over a scratch length of 10 cm.
Cyclic ageing test*	Modified ISO 12944-6	Cyclic ageing test on substrate without scribe - no blistering, no cracking, no rusting after 10 cycles Cyclic ageing test on substrate with scribe - no blistering, no cracking, corrosion creep ≤ 2mm after 5 cycles
Accelerated weathering	ISO 16474-3	No blistering, no chalking, gloss retention ≥50% and colour stability after 350 hours testing
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 ISO 4628-8	No blistering and maximum 2 mm corrosion creep from scribe after 1000 hours
Chemical resistance	GR771 Telcordia Technologies Generic Requirements	No blistering and corrosion after Vitriol/ NaOH solvent
Pencil hardness test	EN ISO 15184	≥ 2 H

*test conducted on Q-Panel R46I steel panels.

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.