

Reveal Era U S

PRODUCT DESCRIPTION

This is a powder coating specifically designed to meet stringent requirements for harsh outdoor environment. It provides high levels of corrosion and physical resistance, excellent gloss retention and color stability along with aesthetic performance. This powder enables efficient application and provides uniform flow and attractive finish even after recycling.

Application areas

The product is suitable for metal objects exposed to the outdoor harsh environment.

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	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 6 months a quality test must be performed.

APPLICATION

Pretreatment

The overall quality of the coating system is largely dependent on the type and quality of the pretreatment. The surface must be free of oil, grease, rust and residues of blasting. For higher demand, it is recommended to use suitable mechanical and/or chemical surface treatment (e.g. blasting, phosphating). Detailed advice should be sought from the pre-treatment supplier.

Powder application

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

Other curing schedules can be created upon technical approval.

Recommended film thickness (µm): ≥60 (Topcoat)

Equipment

Suitable for Corona or Tribo charging equipment.

APPEARANCE

Colour	Cummins Green (Other colours available upon request)	
Gloss	EN ISO 2813 (60°)	Gloss 80-90
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).

Gloss measurements of metallic effect coatings can show deviation from original levels specified in this document and visual comparison with the reference sample is recommended.

Gloss range used in TDS and on the label of the metallic effect coatings represents gloss of the base and not of the final finish.

PERFORMANCE

The technical data provided below are typical for this product when applied as follows:

Substrate	Zinc phosphate cold rolled steel panels
Substrate thickness (mm)	0.8
Film thickness (µm)	Primer: Primax Protect at 40-60 microns Topcoat: Reveal Era U S at 60-80 microns

Typical values when tested.

Property	Standard	Result
Adhesion	ASTM D3359 Method B (cross-cut) ISO 2409 (cross-cut) ASTM D3359 Method A (X-cut) ISO 16276-2 (X-cut)	4B minimum Classification 1 or better 4A minimum level 2 minimum
Impact resistance	EN ISO 6272 /ASTM D2794 (impactor diameter 15.9 mm)	Direct: 40 in lbs force minimum @ 1.5 mils DFT (0.46 m kg force minimum) Indirect: 40 in lbs force minimum @ 1.5 mils DFT (0.46 m kg force minimum)
Flexibility	ASTM D522 Method A (1/18") ISO 6860 (3 mm)	No loss of adhesion or film break evident
Film hardness	ASTM D3363 (Derwent Graphic) ISO 15184	2H minimum
Corrosion resistance - cyclic corrosion	ASTM D6899 Compound Corrosion Test 1 (CCT-1) ISO 4628-8	Average 1-sided creep after 12 weeks: ≤ 4 mm 5 minimum (ASTM D1654 Table 1)
Accelerated weathering (Xenon Arc)	ASTM G155 (modified cycle 2)	> 85% Retention in gloss after 1500 Hours delta E : <1.75

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

Technical Data Sheet

Reveal Era U S



Jotun Protects Property

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.