

Ultra Shine D

PRODUCT DESCRIPTION

Ultra Shine is a metallic powder coating designed using a state-of-the-art bonding process to create an exceptional mirror-look appearance. This recyclable powder coating ensures efficient application, is solvent-free, contains no hazardous materials or intentionally added lead and can be used as an alternative to chrome plating technology.

For improved performance Ultra Shine can be over-coated with Reveal Lite clear coat.

Application areas

This product is recommended for interior use on surfaces exposed to a dry environment.

Typical application areas:

Office furniture
Home furniture
Commercial furniture

POWDER PROPERTIES

Property	Standard	Result
Specific gravity	Calculated	1.2 ± 0.1 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

Please refer to Jotun's Metallic and Special Effects Powder Coating Guidelines.

When used as a dual layer coating system, partial cure of Ultra Shine is recommended to enhance inter-coat adhesion between the coating layers.

Curing schedule	Object temperature	Time
When used as a base layer in a dual layer coating system (Partial cure):		
Ultra Shine D8	180 °C	8 minutes*
Ultra Shine D0	200 °C	8 minutes*

When used as a single layer (Full cure): Ultra Shine D8 Ultra Shine D0	180 °C 200 °C	10 minutes 10 minutes
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* Ultra Shine can be over coated with Reveal Lite. To ensure a full cure of the system the coating system should be cured according to the application recommendation of the product with higher curing schedule.

Other curing schedules can be created upon technical approval.

Recommended film thickness of Ultra Shine (µm): >70

Equipment

Suitable for Corona charging equipment.

APPEARANCE

Colour Mirror-look effect

Finish 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).

Visual comparison of the samples with metallic finish with the reference sample is recommended.

PERFORMANCE

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

Substrate Zinc phosphate cold rolled steel
Substrate thickness (mm) 0.8
Film thickness (µm) 70-100

Typical values when tested.

Property	Standard	Result
Adhesion	ISO 2409 Single coat	Cross-cut rating Gt0 (100 % adhesion)
Cupping test	EN ISO 1520	Passes 5 mm indentation without cracking
Impact resistance	ASTM D2794 (5/8 " ball) (inch-pounds, front and reverse) Single coat	60/60
Pencil hardness test	ASTM D3363 (Derwent Graphic) Single coat	≥F
Scratch resistance	ISO 1518-1/SIS 83 91 17 Ultra Shine D8 Ultra Shine D0	≤ 0.5 mm wide scratch at 1 N load ≤ 0.5 mm wide scratch at 1 N load

Recommendations

Ultra Shine contains metallic particles which settle at the very top layer of the coating and make the surface sensitive to aggressive environments (chemicals, humidity) and mechanical stresses (scratching, marring). Thus, it is highly recommended to protect **Ultra Shine** with **Reveal Lite** to avoid any irreversible damages.

The surface of **Ultra Shine** should be kept clean, dry and grease-free prior to be over-coated with **Reveal Lite**.

Application of the second layer (clear-coat) should be done as soon as possible.

Over-curing of **Ultra Shine** might lead to reduced inter-coat adhesion and should be verified at customer's line. Special care should be taken when using a gas-fired oven with direct heating.

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.