

Ultra Lite D

PRODUCT DESCRIPTION

Ultra Lite is a single-coat low temperature cure powder coating specifically designed for solid wood. This product has excellent clarity and helps to protect the coated surface from moisture and food stains.

Application areas

This product is recommended for interior use only.

Suitable substrates:

Natural hard woods such as Birch, Beech and Oak

Typical application areas:

Kitchen cabinets

Office furniture

Home furniture

Children's furniture

POWDER PROPERTIES

Property	Standard	Result
Specific gravity	Calculated	Typically $1.40 \pm 0.1 \text{ g/cm}^3$

Storage

Keep in a dry cool area. Storage time 6 months at maximum temperature $\leq 17 \text{ }^\circ\text{C}$. Maximum relative humidity 60 %. When transporting, the product must be kept at a temperature of $\leq 17 \text{ }^\circ\text{C}$.

APPLICATION

Pretreatment

The overall quality of the coating system is largely dependent on what type of hard wood and consistency of the substrate.

The preparation, application and curing settings will differ from various types of wood. It is recommended that the coater determines best settings to achieve the desired quality. The surface must be clean and free from dust, grease, adhesive and loose fibres. The surface may need to be sanded. Any sharp edges should be smoothed.

For best result and proper electrical conductivity, the moisture content of the hard wood is recommended to be in range $9 \pm 3 \%$. In combination with a soft preheat ensures stable and consistent application parameters over time with correct conductivity to attract and hold the electrostatic charged powder particles to the substrate. If in doubt, please seek advice from your Jotun Technical Service advisor.

Powder application

Infrared heating or a combination of infrared and convection heating is recommended.

Curing schedule	Object temperature	Time
Ultra Lite D	130 °C	3 minutes

Note! The exact curing conditions are dependent on the curing oven configuration, condition, and the substrate.

A fully cured film has to be reached in order to assure the correct film properties. An inadequately cured film (or prepared board) may result in film failure, e.g. edge cracking (especially when the board is subjected to environments with different humidity content), reduced chemical resistance and/or a sticky surface. Failure of this nature may appear a few hours after application as well as several months after application.

Recommended film thickness (µm): 50-90

Equipment

Suitable for Corona charging equipment.

APPEARANCE

Colour	The product is clear.
Gloss	Matt and semi gloss.
Finish	Fine texture

PERFORMANCE

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

Substrate	Solid hard wood and other wood-based materials
Film thickness (µm)	50-90

Typical values when tested.

Property	Standard	Result
Water	EN 12720	Minimum rating 4 (Class R4 16 hours)
Fat (liquid paraffin)	EN 12720	Minimum rating 4 (Class R4 24 hours)
Coffee	EN 12720	Minimum rating 4 (Class R4 1 hour)
Water resistance test	Ledro swelling test - 48 hours	Pass

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, and disposal is easy and safe. In addition, all Jotun Powder Coatings' products does 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.