

# Luminol Clear 25

## DESCRIPTION

A water-borne UV-curing urethane lacquer.

## PRODUCT FEATURES AND RECOMMENDED USES

- Luminol Clear 25 has superior stacking properties, thus enabling faster production cycles.
- A water-borne option for acid-catalyzed products. Due to UV-curing technology, the scratch resistance of the final surface is outstanding.
- Retains and enhances the natural outlook of the wood.
- Excellent resistance to abrasion and chemicals.
- Fast curing.
- Listed in the database for building products that can be used in Nordic Swan Ecolabelled buildings.
- Recommended for furniture, doors of kitchen fittings, interior doors and other wooden surfaces.

## TECHNICAL DATA

Volume solids 28±2%

Weight solids 32±2%

Specific gravity 1.0 kg/l

## Recommended spreading amounts and theoretical coverage

Recommended spreading amounts (unthinned)		Theoretical coverage
wet	dry	
80–100 g/m <sup>2</sup>	25–32 µm	10–13 m <sup>2</sup> /l

Practical coverage depends on the application method, painting conditions and the shape and roughness of the surface to be coated.

Drying times 100 g/m<sup>2</sup>

Dry to sand immediately after UV-curing.  
Dry to stack immediately after UV-curing.

Flash Off 1-3 minutes needed before conventional drying. Flash off times are related to the film thickness, temperature, the relative humidity of the air and ventilation.

## Required UV-energy

Dry to stack after 600 mJ/cm<sup>2</sup> UV-A dose according to EIT UV Power View measuring equipment. For drying needed UV-oven with f.ex. Mercury lamps. The number of lamps depends of the power and line speed.

Gloss Semi-matt.

Color shades Clear



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## APPLICATION INSTRUCTIONS

<b>Surface preparation</b>	Remove dust, loose particles and other impurities from the surface. Wood surfaces must be sanded with sandpaper P150–320. Sanding prior to the next application with sandpaper P240–400. All sanding dust must be removed.
<b>Recommended primers</b>	Luminol Clear 25.  Apply lacquer 1–2 times. Different colours can be achieved by using Akvi Color stains under lacquer film.
<b>Application conditions</b>	The surface to be treated has to be clean and dry. The moisture content of wood has to be below 20%. During application and drying temperature of the air, substrate and product must be over +18°C and relative humidity of the air below 70%. Good ventilation is required to ensure optimal result.
<b>Application</b>	Stir the product carefully before use.  For airless spraying, the product is thinned approximately 0–5% to the viscosity 40–60s (DIN4). Recommended nozzle tip is 0.009"–0.013" and pressure 80–160 bar. Spray angle shall be chosen according to the shape of the object.  For air-assisted airless spraying, the product is thinned approximately 0–5% to the viscosity 40–60s (DIN4). Recommended nozzle tip is 0.009"–0.015" and pressure 40–140 bar. Atomising air pressure should be about 2 bar. Spray angle shall be chosen according to the shape of the object.  For conventional spraying, the product is thinned approximately 0–5% to the viscosity 40–60s (DIN4). Recommended nozzle tip is 1.4–1.8 mm and pressure 2–3 bar.
<b>Thinners</b>	Water
<b>Cleaning of equipment</b>	Water
<b>VOC</b>	The Volatile Organic Compounds amount to 41 g/litre of paint. VOC 2004/42/EC (cat A/i) 140 g/l (2010)

**HEALTH AND SAFETY** Containers are provided with safety labels, which should be observed. Further information about hazardous influences and protection are detailed in individual health and safety data sheets.  
A health and safety data sheet is available on request from Tikkurila Oyj.

### For industrial use only.

The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.

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In case you intend to use the product for any other purpose than that recommended in this document without first getting our written confirmation on the suitability for the intended use, such use takes place at your own risk.