



## Merit Zircon Extra 25

### DESCRIPTION

A one-component acid-catalyzed lacquer.

### PRODUCT FEATURES AND RECOMMENDED USES

- A high-quality replacement for nitro-cellulose lacquers. Its solid content is higher and the chemical resistance significantly better compared to generally used nitro-cellulose lacquers.
- An all-round lacquer for both sealing and top lacquering. The product is easy to sand and contains no aromatic solvents.
- The emission level of this product fulfils the requirements of E1 classification for surface treatment materials. The product has been tested according to the standard EN 717-1, and its formaldehyde emission rate is less than 0.124 mg/m<sup>3</sup> air.
- Suitable for furniture, doors and other wooden surfaces.

### TECHNICAL DATA

Volume solids 27±2%

Weight solids 34±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>	20–30 µm	10–12 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

80–100 g/m <sup>2</sup>	+23°C	+50°C
Touch dry, after	15–25 min	10–15 min
Dry to sand, after	1–1.5 h	20–25 min
Dry to pack, after	24 h	50–60 min

Stacking temperature below 35°C.

Drying and recoating times are related to the film thickness, temperature, the relative humidity of the air and ventilation.

Gloss Semi-matt.

Color shades Clear.



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## APPLICATION INSTRUCTIONS

- Surface preparation** 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.
- Recommended primers** Merit Sanding, Merit Zircon Extra 25.
- Application conditions** 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. Product can be dried with or without oven.
- Application** Stir the lacquer carefully before use. Thin the lacquer to the viscosity required with Thinner 1035 or 1058.
- In case the lacquer mixture is used on the next day, add at least an equal amount of fresh lacquer mixture.
- Do not use iron containers as mixing container. Instead use plastic, enamel or acid resistant steel containers.
- For airless spraying, the product is thinned approximately 5–20% to the viscosity 25–50s (DIN4). Recommended nozzle tip is 0.011"–0.015" and pressure 120–160 bar. Spray angle shall be chosen according to the shape of the object.
- For air-assisted airless spraying, the product is thinned approximately 5–20% to the viscosity 25–50s (DIN4). Recommended nozzle tip is 0.011"–0.015" and pressure 40–120 bar. Atomising air pressure should be about 1–3 bar. Spray angle shall be chosen according to the shape of the object.
- For conventional spraying, the product is thinned approximately 0–20% to the viscosity 25–60s (DIN4). Recommended nozzle tip is 1.4–1.8 mm and pressure 2–3 bar.
- For curtain coating, the product is thinned approximately 5–15% to the viscosity 35–50s (DIN4). Avoid too high pumping pressure and flowing speed.
- Thinners** Thinner 1035, Thinner 1059, Thinner 1058, Thinner 1033
- Cleaning of equipment** Thinner 1035, 1058, 1033 or 1059.
- VOC** The Volatile Organic Compounds amount is 620 g/litre of paint.  
Maximum VOC content in ready to use paint (thinned 20 % by volume) is 650 g/l.
- 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.

The product is intended for professional use only and shall only be used by professionals who have sufficient knowledge and expertise on the proper use of the product. The information above is advisory only. To the extent permitted by applicable law, we shall not approve of any liability for the conditions under which the product is being used or for the use or application of the product.

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.