

# Merit 20

## DESCRIPTION

A two-component acid-catalyzed lacquer.

## PRODUCT FEATURES AND RECOMMENDED USES

- The lacquer forms a very hard film with good scratch resistance. Its high solids content enables outstanding filling properties.
- Gives the surface a silky and smooth semi-matt appearance. The durable high-quality product highlights the design of the lacquered object.
- Wooden surfaces can be colored with either the solvent-borne Dicco Color or the water-borne Akvi Color stain before applying Merit 20. The lacquer enhances the appearance of stained wood.
- 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.
- Recommended for furniture, doors and other similar wooden surfaces.

## TECHNICAL DATA

**Volume solids** 50±2%

**Weight solids** 57±2%

**Specific gravity** 1.0 kg/l

**Mixing ratio**  
 Lacquer 100 parts by volume Merit 20  
 Hardener 10 parts by volume 006 2098

**Pot life (+23°C)** 48 hours

### Recommended spreading amounts and theoretical coverage

Recommended spreading amounts (unthinned)		Theoretical coverage
wet	dry	
80–100 g/m <sup>2</sup>	40–50 µm	10–12 m <sup>2</sup> /l

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

### Drying times

80–100 g/m <sup>2</sup>	+23°C	+50°C
Touch dry, after	20–30 min	10–15 min
Dry to sand, after	3–4 h	30–40 min
Dry to stack, after	24 h	60–70 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

<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>	Merit Sanding, Merit 20, Merit 30, Merit 80.
<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. Product can be dried with or without oven.
<b>Mixing components</b>	<p>First stir base and hardener separately. The correct proportions of base and hardener must be mixed thoroughly before use. Use power mixer for mixing. Insufficient mixing or incorrect mixing ratio will result in uneven drying of the surface and weaken the properties of the coating.</p> <p>Do not use iron containers as mixing container. Instead use plastic, enamel or acid resistant steel containers.</p>
<b>Application</b>	<p>For airless spraying, the product is thinned approximately 5–20% to the viscosity 20–45s (DIN4). Recommended nozzle tip is 0.011"–0.015" and pressure 100–160 bar. Spray angle shall be chosen according to the shape of the object.</p> <p>For air-assisted airless spraying, the product is thinned approximately 5–20% to the viscosity 20–45s (DIN4). Recommended nozzle tip is 0.011"–0.015" and pressure 40–140 bar. Atomising air pressure should be about 1–3 bar. Spray angle shall be chosen according to the shape of the object.</p> <p>For conventional spraying, the product is thinned approximately 5–20% to the viscosity 20–45s (DIN4). Recommended nozzle tip is 1.4–1.8 mm and pressure 2–3 bar.</p>
<b>Thinners</b>	Thinner 1027, Thinner 1033
<b>Cleaning of equipment</b>	Thinner 1027, Thinner 1033
<b>VOC</b>	<p>The Volatile Organic Compounds amount is 420 g/litre of paint.</p> <p>VOC content of the paint mixture (thinned 20% by volume) is 500 g/l.</p>

**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.