

AURO Clear lacquer, glossy No. 251 and AURO Clear lacquer, matt silk No. 261

Technical Data Sheet

Type of material

- Environment-friendly, water-thinned transparent varnish for interior use
- Free of solvents and wood preservatives
- Consistent selection of ecologically friendly raw materials

Application

- As a transparent coating for wood and wood materials
- Apply at least 2x at approx. 0.08 l/m² per coat

Technical properties

- Tested according to DIN EN 71, Part 3, Safe for Toys
- Tested according to DIN 53160, saliva- and perspiration-proof
- Acc. to EN 13300: Abrasion Class 1

Composition

Water, vegetable binder (sunflower-oil, linseed-oil and dehydrated castor-oil stand oils, colophony glycerine ester, partly as ammonium soaps), mineral fillers, silicic acids, surfactants (from rapeseed-oil, linseed-oil, sugar surfactant, lecithin) cellulose ether, dryers (lead-free). Natural colours are not odour and emission free. Consider possible allergies. Our current Full Declaration is definitive.

Shades

Colourless with a slight honey shade. Please note: The product has a milky appearance, but it dries into a clear and transparent film. Clear varnishes produce different effects on different woods. Consequently, a test application is recommended. Shade and gloss differences are possible with different batch numbers. Mix together different batches before they are applied. Tinting is possible with AURO Paints No. 250* or No. 260*, but product and gloss changes must be taken into account. Mixing is at your own responsibility.

Coating methods

Brushing, rolling (synthetic or mixed-fibre brush, fine-pore foam rollers, short-pile varnishing roller, e.g. AURO Tools).

Spraying	High-pressure	HVLP (mist reduced)	Airmix	
Nozzle width	1,2-2,0 mm	1,2-2,0 mm		acc. to manufacturer
Air pressure	3-5 bar	2-4 bar		acc. to manufacturer

Drying time in a normal climate (23 °C/ 50% rel. humidity)

- Set to touch: after approx. 8-10 hours; dry and can be over-painted after approx. 24 hours; final hardness after approx. 5 days.
- Direct application on wood rich in infiltrates (see rear side, Point 2), high humidity levels, low temperatures and high application rates can significantly delay drying.
- Drying is by way of oxygen absorption. Consequently, ensure adequately tempered ventilation.

Density: ca. 1,05 g/cm³

Danger Class: not applicable

Viscosity: Approx. 30 - 40 seconds (DIN 6 mm) at 20 °C.

Thinner: Ready for application; can be diluted with max. 20% water

Application rate: 0,07 – 0,09 l/m² per coat, equalling approx. 70 - 90 my wet coat on smooth, uniformly absorbent bases. The actual application rate depends on the base, manner of processing and surface quality. Establish precise application rates with a test coat.

Tool cleaning: Carefully press them out immediately after use and wash thoroughly in water to which AURO Plant Soap No. 411* is added. Remove encrusted product residues from the tools by prolonged soaking in a soap solution or remove with AURO Thinner No. 191* and then rinse thoroughly with water to which AURO Plant soap No. 411* has been added. AURO Plant Soap No. 411* can be rubbed into brushes and surface coaters for their storage; wash them thoroughly before they used again.

Shelf life: In the original tightly closed container at 18 °C: 12 months.

Storage: Keep out of reach of children. Store in the tightly closed container.

Packaging material: Tinplate; only empty containers can be recycled.

Disposal of liquid residues EAK-Code 080112 or 200128, EAK designation: Paints. Only completely emptied containers with dried product residues should be returned for recycling. Only dried product residues as fully hardened paints should be disposed of as domestic waste.

WARNING Danger of self-ignition of drying oils. Consequently, do not crumple used cleaning cloths and the like. Spread them out in a smooth manner so that they can dry or store them in an air-tight closed metal container. Product code: M-DF 03 Natural Resin Paints, solvent-free; Switzerland. BAG T No.: 100388. Observe the customary protective measures. Ensure adequate skin protection and ventilation during application. For further details see Safety Data Sheet and Technical data sheets*.

Application-technical recommendations

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1. BASE

1.1 Appropriate bases: Wood, wood-based materials. Not for floors or wood that comes into contact with the soil.

1.2 General demands expected of the base

The base must be clean, be able to support the paint and be free of releasing agents or staining substances.

2. COAT COMPOSITION (FIRST COAT)

2.1 Kind of base: Untreated wood and wood materials

2.1.1 Base preparation

- Round off the edges; clean the base, sand and finally carefully remove all dust.
- For high-quality surfaces on smooth wood; initially wash with a sponge and allow to dry; fine sand in grain direction; brush open pores; carefully remove all dust and clean.
- Use rust-free abrasives for sanding work.
- Wash wood rich in infiltrates and resin, as well as tropical wood, with alcohol thinner and fine sand once again.
- Remove substances seeping out of the wood, e.g. resin and resin galls; remove damaged wood; seal open wood joints
- Pre-treat wood rich in infiltrates with AURO Special Primer No. 117*:
- Wood rich in tannin (e.g. oak, horse chestnut, emiri and similar wood) to prevent prolonged drying.
- Wood with seeping stains (e.g. larch, red cedar, meranti and similar wood), especially when light or white coats are to be subsequently applied.
- Salt-treated and boiler-pressure impregnated wood as preventative treatment against efflorescence.

2.1.2 Base treatment

- Apply 1x to 2x AURO Wood Primer No. 124* or AURO Special Primer No. 117* depending on the given wood.
- Alternatively, and depending on the given kind of wood, priming can also be completed with Clear lacquer No. 251 or No. 261 diluted max. with up to 20% water.

2.1.3 Intermediate treatment

- Fill and smooth damaged areas with appropriate products.
- 1x With AURO Clear lacquer No. 251 or No. 261, if this has not yet been applied.

2.1.4 Final treatment

- At least 1x AURO Clear lacquer No. 251 or 261.
- Between each coating and after drying, and depending on the base and required surface quality, it is advisable to lightly sand the surface with fine emery paper (220 grain) or an emery pad, without damaging the edges, and then carefully remove all dust.

3. COAT COMPOSITION FOR RENOVATION COATING

3.1 Kind of base: Greyed or damaged old coats (repair)

3.1.1 Base preparation

- Check existing bases and old coats for adhesion and compatibility; if necessary carry out a test coating.
- Old coats that no longer provide any support or are unsuitable, e.g. greyed or severely damaged weathered old coats, must be removed right down to the bare wood or a base that can provide firm support.

3.1.2 Follow-on treatment: Proceed as described in 2.

3.2 Kind of base: Intact old coat (maintenance)

3.2.1 Base preparation: Clean the surface thoroughly, sand and remove all dust.

3.2.2 Base treatment: Not necessary with intact old coats with a supporting and adhesion capacity.

3.2.3 Final treatment: As described in 2.1.3/ 2.1.4.

4. MAINTENANCE AND CARE

Either clean the surfaces with lukewarm water or use AURO Paint and stain cleaner No. 435*. Do not use any lyes (e.g. ammonia solution or soap lye) or abrasive cleaning agents.

Processing instructions

- Prior to product application check the base for suitability and compatibility.
- If a base cannot be checked, then the old coat must be removed entirely right down to the bare wood or the intact primer must be removed.
- Avoid direct exposure to sunlight, moisture influences and dirt while the coat is drying.
- Application temperature at least 10 °C, max. 30 °C, max. 85% rel. humidity; optimal 20-23 °C, 50-65% rel. humidity.
- Moisture in the wood: max. 12% in hardwood and 15% in pinewood - Stir the product thoroughly prior to application.
- Each subsequent coat must be speedily applied in conformity with the given coating composition only after each coat has completely dried
- Do not expose coats that are not yet fully cured to prolonged loads - Product-typical after-yellowing must be taken into account.
- The gloss varies with the different types of wood and is diminished by stresses - The renovation cycle depends on the intensity of wear
- Care and renovating work completed in due time will favour durability.
- Only use sealing compounds and adhesive tapes that are compatible with the products.
- Check that glazing seals are fully functional; renew whenever necessary.
- Ensure that paint coats on windows have fully dried before the windows are closed
- All coating work must be adapted to the object and its use.

The Technical Guidelines No. 20 of the Federal Committee for Paints and the Protection of Objects (BFS) must be observed.

This Technical data sheet merely gives recommendations and possible examples. No binding force or liability can be deduced from this sheet. Using the recommendations does not imply a legal relationship. The details conform with our present-day knowledge and do not absolve users from their own responsibilities. The current state of the art must be observed in connection with all coating and preparation work. The conditions of the object and product suitability must be competently verified. This Technical data sheet loses its validity with the publication of a new version. Status: 01.01.2011, update of ingredients