Technical Data Sheet

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

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.

Intended purpose
- As transparent coating for wood and wood based materials.
- Interior use only; 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, colophony glycerol ester with organic acids*, mineral fillers, sunflower oil*, linseed oil*, drying agents (cobalt-free), castor stand oil*, surfactants made of rapeseed- and castor oil, *as amino soap, silicic acid, cellulose, fatty acids.
Natural products are not odour- nor emission-free. May cause allergic reactions. See the current full declaration on www.auro.de.

Color 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.

Application method
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	1,0-2,0 mm	1,0-2,0 mm	acc. to manufacturer
Air pressure	3-5 bar	2-4 bar	acc. to manufacturer

Drying time un standard climate (23 °C/ 50% rel. humidity)
- Set to touch: after approx. 10 hours; dry and can be over-painted after approx. 24 hours; final hardness after approx. 5 days.
- Direct application on wood rich in active substances (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 1,04 – 1,07 g/cm3.

Hazard class Does not apply.

Viscosity Approx. 30 - 60 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, equaling approx. 70 - 90 µm wet coat on smooth, uniformly absorbent bases. The actual application rate depends on the base, manner of processing and surface quality. Determine exact consumption on sample.

Cleaning of tools Immediately after use, press out the product residues and wash thoroughly in water and 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 Orange oil 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.

Storage stability In the original tightly closed container at 18 °C: 12 months.

Packaging material Tinplate. Only recycle completely empty containers with dry products residues.

Disposal Liquid residues EWC-Code 080112, 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.

Attention 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; Observe the customary protective measures. Ensure adequate skin protection and ventilation during application. See Safety Data Sheet and Technical Data Sheets*.

Technical recommendations for application AURO Clear lacquer, glossy No. 251 and AURO Clear lacquer, matt silk No. 261

1. SUBSTRATE
1.1 Suitable substrates Wood, wood-based materials. Not for floors or wood that comes into contact with the soil.
1.2 General substrate requirements
The substrate must be clean, be able to support the paint and be free of releasing agents or staining substances.

2. COATING SYSTEM (FOR INITIAL COATING)
2.1 Type of substrate Untreated wood and wood materials
2.1.1 Substrate preparation
- Round off edges, clean the substrate, sand and remove all dust.
- For high-quality surfaces on smooth wood: water with a sponge and allow to dry; fine sand in grain direction; brush open the pores, remove dust and clean.
- Use rust-free abrasives for sanding work.
- Wood rich in substances and resin, as well as tropical wood: wash 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.
- Wood based materials: seal edges waterproof.

Pretreat woods rich in active substances with AURO Special Primer No. 117*: Woods rich in tanning substances (e.g. oak, chestnut, framire etc.) - to prevent drying delays; woods with bleeding or staining contents (e.g. larch, red cedar, meranti, etc.) - especially before light-coloured or white coatings; wood treated with boron salt or boiler pressure impregnated wood - to prevent efflorescence.
2.1.2 Basic treatment
- Apply 1x to 2x AURO Hard 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 slightly sand the surface with fine sandpaper (220 grit) or and sand pad, without damaging the edges, and then carefully remove all dust.

3. COATING SYSTEM (FOR RENOVATION COATING)
3.1 Type of substrate 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 After-treatment Proceed as described in 2.
3.2 Type of substrate Intact old coat (maintenance)
3.2.1 Substrate preparation Clean the surface thoroughly, roughen and remove all dust.
3.2.2 Basic 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.

REMARKS
- Stir well before use.
- Prior to product application, check the substrate for suitability and compatibility.
- If substrate cannot be checked, then the old coat must be removed entirely right down to the bare wood or the intact primer.
- Avoid direct exposure to sunlight, moisture influences and dirt during the application and drying.
- Application temperature at least 10 °C, max. 30 °C, max. 85% rel. humidity; optimal 20-23 °C, 50-65% rel. humidity.
- Wood moisture: max. 12% in hardwood and 15% in pinewood.
- Each subsequent coat must be speedily applied in conformity with the given coating composition only after each coat has completely dried.
- Do not expose unfinished coats 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 wear.
- Only use sealing compounds and adhesive tapes that are compatible with the products.
- 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.

* See respective Technical Data Sheets.

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