

### AURO Natural resin oil stain LM 930, coloured and colourless

#### Type of material

- Environment-friendly, solvent-based, transparent thin-film wood coating.
- Silky gloss, free of wood preservatives.
- Consistent selection of ecologically friendly raw materials.

#### Application

- As a transparent decorative coating for the protection of wood and wood materials, capable of diffusion.
- Apply at least 2x for interior use, and at least 3x for exteriors, at approx. 0.04 l/m<sup>2</sup> per coat.

#### Technical properties

- Tested according to DIN EN 71, Part 3, Safe for Toys.
- Tested according to DIN 53160, saliva- and perspiration-proof.
- Coloured: tested according to DIN EN 927 for wood that is not dimensionally stable.
- Colourless: for interiors and surfaces that are not exposed to weathering.

#### Composition

Orange oil, vegetable binder (sunflower-oil, linseed-oil and dehydrated castor-oil stand oils, colophony glycerine ester), mineral pigments, fillers, swelling clays, silicic acids, dryers (lead-free), lethicin, alcohol. Natural colours are not odour and emission free. Consider possible allergies. Our current Full Declaration is definitive.

#### Shade

Colourless with a slight honey shade. 24 different shades and colourless (see corresponding colour chart or product list).

**Please note:** Colour and gloss differences are possible with different batch numbers. The glaze shade appearance on different kinds of wood can differ so that a test application is advisable.

**Observe the following when selecting a shade:** Some shades for exterior use (e.g. pure white, bright or very dark shades) are, object-conditioned, more sensitive and require more intensive renovation. All glazes are miscible with each other. The colourless glaze can be additionally tinted with max. 20% AURO Colour conc. for natural resin oils No. 150\*. Mixing coloured glazes with a colourless glaze diminishes exterior resistance and shortens the renovation cycle. Mixing is at your own responsibility.

#### Coating methods

Brushing with a glazing brush (e.g. AURO Tools).

Spraying	Air Coat	Compressed air	HVLP (mist reduced)
Spraying pressure	50 - 60 bar	-	-
Air pressure	1,5 - 2 bar	2,0 - 2,5 bar	-
Spraying nozzle	flat jet 9/40	0,5 - 1,0 mm	flat jet 0,5 - 1,0 mm

#### 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. 8 days.
- High humidity levels, low temperatures and high application rates can significantly delay drying.
- Drying is by way of oxygen absorption. Consequently, ensure adequate tempered ventilation.

Density	0,90 - 0,96 g/cm <sup>3</sup> , depending on the shade	Danger Class: UN 1263, ADR 3, VbFA II, inflammable.
Viscosity	Approx. 15 seconds DIN 4 mm at 20 °C	
Thinner	Ready for application; can be diluted with max. 20% AURO Thinner No. 191*	
Application rate	0.03 – 0.05 l/m <sup>2</sup> per coat, equalling approx. 30 - 50 my wet coat on smooth, uniformly absorbent bases. The actual application rate depends on the base, manner of processing and surface quality. Establish the precise application rate by test coating.	
Tool cleaning	Carefully press them out immediately after use and wash thoroughly with AURO Thinner No. 191*. Remove encrusted product residues from tools by prolonged soaking in a soap solution or with AURO Thinner No. 191* and then rinse thoroughly with water to which AURO Plant soap No. 411* has been added.	
Shelf life	In the original tightly closed container at 18 °C: 24 months.	
Storage	Keep out of reach of children. Store in the tightly closed container in a dry, cool but frost-free place.	
Packaging material	Tinplate	
Disposal of liquid residues	EAK-Code 080111 or 200127, EAK designation: Paints. Only 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** The product is inflammable. **R 10 Inflammable. S 16 Keep away from ignition sources. Do not smoke. Danger of self-ignition of drying oils. Consequently, do not crumple used cleaning cloths and the like. Spread them out in a smooth mannerso that they can dry orstore them in an air-tight closed metal container. Contains Orange Oil, R 64. Can cause lung damage when swallowed. S 23 Vapour/Aerosol - Do not inhale! S 51 Only use in well ventilated rooms. S 62 - When swallowed do not induce vomiting. Consult a doctor immediately and present the package or this label. Product code: M-LL04 Solvent-based Oil Paints. Switzerland. BAG T No.: 65899. Observe the customary protective measures. Ensure adequate skin protection and ventilation during application. Forfurther details see Safety data sheet and Technical data sheet\*.**

# Application-technical recommendations

## AURO Natural resin oil stain LM 930, coloured and colourless

### 1. Base

**1.1 Appropriate bases:** Wood, interiors and exteriors; wood materials only for interior use. Colourless glaze only for interior areas or surfaces that are not exposed to free weathering. Not for floors or wood that come 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. Take into account the wood preservatives that are used in construction work.

### 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 AURO Plant alcohol thinner No. 219\* 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.
- Additionally apply a water-proof seal on the edges of wood materials.
- The product is free of an active agent (wood preservative). Consequently, crude pinewood and raw materials, dimensioned components and wood formwork, weathered or in moist rooms, all require previous treatment with an appropriate wood preservative primer in conformity with DIN 68800.

#### 2.1.2 Base treatment

- Treat inside and outside 1x with AURO Natural resin oil stain No. 930;
- For priming thin the product with up to 20% AURO Thinner No. 191\*.  
Alternatively, priming is also possible with AURO Special primer No. 117\*.

#### 2.1.3 Intermediate treatment

- Treat inside and outside 1x with AURO Natural resin oil stain No. 930.

#### 2.1.4 Final treatment

- The inside can be treated once again, depending on the colour effect and surface quality.
- Outside must be glazed at least one more time; for smooth, uniformly absorbent surfaces apply at least 0.12 l/m<sup>2</sup> to ensure that optimal protection is maintained.
- 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 finally carefully remove all dust.

### 3. Coat composition for renovation coating

**3.1 Kind of base:** Weathered, greyed or damaged old coats (repair).

#### 3.1.1 Base preparation

- Check existing bases and old coats for adhesion and compatibility.
- 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:** Clear 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** An additional undercoat with AURO Special primer No. 117\* is recommended.

**3.2.4 Final treatment:** As described in 2.1.3/ 2.1.4.

### 4. Maintenance and care

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

#### General 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.
- Avoid direct exposure to sunlight or moisture during application. Avoid 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 keeping with the coating composition only after it has completely dried.
- Do not expose coats that are not yet fully cured to prolonged weathering.
- Product-typical after-yellowing must be taken into account.
- The gloss varies with the different types of wood and is diminished by outdoor application.
- The renovation cycle depends on the intensity of wear and choice of colour; with optimal coat application it can be up to 4 years and more.
- For optimal, permanent protection, the surfaces must be regularly checked, at least 2x a year given care treatment, and damaged points immediately repaired.
- Depending on the given object earlier renovation may be necessary. Care and renovating work completed in due time will favour durability.
- Only use sealing compounds and adhesive tapes that are compatible with the products.
- Give the inside and outside of windows the same treatment.
- Check the function of the glazing seal; replace if necessary.
- Ensure that paint on windows has fully dried before the windows are closed.
- Wood components exposed to the weather, e.g. windows, wood cladding, must only be installed after intermediate treatment on all sides.
- Observe the general state of the art for paint planning and application. All coating work must be adapted to the object and its use. The Technical Guidelines No. 3, No. 18, No. 20 of the Federal Committee for Paints and the Protection of Objects (BFS), and the Coat Check of the Initiative "Pro Wood Windows" (download [www.auro.de](http://www.auro.de)), must be observed.

This Technical data sheet merely gives recommendations and possible examples. No binding force or liability can be deducted 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: 01.04.2004; entirely revised.

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