

AURO Woodstain No. 160, coloured and colourless

Material type

- Environment-friendly, water-thinnable, transparent wood coating.
- Medium gloss, solvent-free, contains no wood preservatives.
- All organic raw materials

Purpose

- For transparent coating, for a diffusable protective layer on wood and wood-based materials.
- Interior at least 2 coats, exterior at least 3 coats, per coat approx. 0.08 l/m².

Technical properties

- Tested in accordance with DIN EN 71 Part 3, toy safety.
- Tested in accordance with DIN 53160, saliva-proof and sweat-proof.
- Coloured, tested according to DIN EN 927 on wood with reduced dimensional stability.
- Colourless only for interior work and for surfaces not exposed to weathering.

Composition

Water, plant-based binding agent (sunflower seed oil, ricinus oil, linseed stand oil, colophonium glycerine ester, partly as ammonium soaps), titanium dioxide, mineral pigments, fillers, cellulose ether, silicic acids, surfactants (made from rapeseed and ricinus oils and sugar tensides), borates, lecithin. Natural paints are not free of odours or emissions. May induce allergic reactions. See our current full declaration of contents (www.auro.com).

Colour hue

24 different hues and colourless (see relevant Colour chart or Product list). The colourless stain confers a light honey tone.

Important: Differences in colour hue and degree of gloss are possible with different lots. Mix different lots before application. The stain tones also differ in appearance when applied to different woods, so that a test coat is always advisable. When selecting the colour hue: Some colour tones (e.g. pure white, light or very dark) are more sensitive and require more frequent renovation when used out-of-doors. All of the stains can be mixed together. Mixtures of coloured stains with colourless stains reduce weather resistance and shorten renovation cycles. Customers create mixtures at their own risk.

Application methods

Stain brush (artist's or mixed-fibre bristles, e.g. AURO tools).

Spraying equipment	High-pressure	Mist reduction (HVLV)	Airmix
Nozzle width	1,0-2,0 mm	1,0-2,0 mm	acc. to manufacturer information
Air pressure	3-5 bar	2-4 bar	acc. to manufacturer information

Drying time under normal climatic conditions (23 °C/ 50% rel. humidity)

- Dust dry after approx. 10 hours, dry and workable after approx. 24 hours, cured after approx. 5 days.
- Significant drying delays are caused by high humidity, low temperatures and excessive application volumes.
- Drying is a process of oxygen uptake. Ensure plentiful and tempered air volume exchange during the drying process.

Density	1.05 -1.10 g/cm ³ , depending on colour hue	Hazard class: Does not apply
Viscosity	Approx. 50-80 seconds (DIN 4 mm) at 20°C.	
Thinner	Product is supplied ready for use, thinnable with max 20 % water.	
Consumption volume	0,07 - 0,09 l/m ² per coat, corresponds to approx. 70-90 µm wet layer, on smooth, evenly absorbent substrates. Consumption volumes depend on substrate, processing method, surface quality. Determine exact consume with test coat.	
Tool cleaning	Carefully brush out product after use, then wash out with AURO Plant soap No. 411* and water. Remove stubborn product residues by soaking the tools for longer periods in soap solution or with AURO Thinner No. 191* and rinse thoroughly with water to which AURO Plant soap No. 411* has been added. Experience has shown the effectiveness of rubbing AURO Plant soap No. 411* into brushes, rollers, etc., then putting them into storage and rinsing them thoroughly with water prior to the next application.	
Storage stability	At 18 °C in unopened original container: 12 months. Store out of reach of children in a cool, dry place protected from frost.	
Container material	Tin plate. Return completely emptied tins for recycling.	
Disposal	Liquid residues: EAK code 080112 or 200128, EAK designation: Paints. Return only containers emptied completely and containing dried product residues for recycling. Dispose of only dried product residues, either as dried paint or with household wastes.	
Important	Risk of spontaneous combustion due to drying oils: Do not crumple used cleaning rags, etc., but allow them to dry by spreading them out singly, or store in a sheetmetal container closed airtight. Product code: M-DF 03 Natural resin paints, solvent-free. Normal protective measures must be taken, e.g. protect skin from contact and ensure sufficient ventilation during processing and application. For more details see Safety data sheet. *See Technical data sheets.	

Technical application recommendations

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1. SUBSTRATE

1.1 Suitable substrates: Wood indoors and outdoors, wood-based materials indoors only.

Colourless stain only for interior work or surfaces not exposed to weather. Not for floors or for wood with soil contact.

1.2 General substrate requirements

The substrate must be clean, firm, free of separating or bleeding substances. Use structural wood protection methods.

2. SUCCESSION OF COATS (PRIMER)

2.1 Substrate type: untreated wood, wood-based materials.

2.1.1 Substrate preparation

- Round off corners, clean the surface, roughen, carefully remove all dust.
- For high-quality surfaces on smooth woods, first wet with sponge, allow to dry, fine sanding with the grain, brush out pores, carefully remove all dust and clean.
- Use only rust-free grinding agents.
- Wash out resinous and tropical woods with alcohol thinner and repeat fine sanding.
- Remove any substances that come out of the wood such as resin or resin galls; remove damaged wood; seal open wood composites.
- Also seal off the edges of wood-based materials watertight.
- The product contains no active (wood preservative) ingredients. Treatment with a wood protection primer tested acc. to DIN 68800 is required in particular for open softwood and wood-based materials, dimensionally stable structural elements and wood shuttering, weathered or in high-humidity rooms.

Please see our information sheet "*Protecting woods from mould and blue stain*"

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 for following coatings that are light-coloured or white
- Wood treated with boron salt or boiler pressure impregnated wood to prevent efflorescence.

Please see our information sheet "*Universal pretreatment of woods rich in active substances*".

2.1.2 Priming

- Indoors and outdoors, 1 coat of AURO Woodstain No. 160;
- Thin primer coat with up to 20% water.
- As an alternative for interior priming, 1 coat of AURO Wood primer No. 124* can be used.

2.1.3 Intermediate treatment

- Indoors and outdoors 1 coat of AURO Woodstain No. 160.

2.1.4 Final treatment

- Indoors, another coat can be applied depending on the colour effect and surface quality.
- Outdoors, at least 1 further coat of coloured stain must be applied; on smooth, evenly absorbent surfaces, comply with total consumption volume of at least 0.24 l/m² for optimum protection.

Between coats, after drying, fine sanding (220 grain or grinding pad) and dust removal is recommended; be careful not to damage edges.

3. SUCCESSION OF COATS FOR RENOVATION WORK

3.1 Substrate type: Weathered, greyed or damaged paint (repair)

3.1.1 Substrate preparation

- Check substrates and old paint for adhesion and compatibility.
- Remove old paint that does not adhere firmly, unsuitable old paint, e.g. greyed or heavily weathered old coats, completely to expose the firm wood structure.

3.1.2 Subsequent treatment: Coats as described under item 2.

3.2 Substrate type: Intact old paint (maintenance)

3.2.1 Substrate preparation: Thoroughly clean, roughen and dedust surface.

3.2.2 Priming: Does not apply to intact old paint coats that are firm and adherent.

3.2.3 Final treatment: As described under 2.1.3/ 2.1.4.

4. CLEANING AND CARE

Either clean surfaces with lukewarm water only or use AURO Paint and stain cleaner No. 435*. Do not use alkaline solutions (e.g. ammonia or soap solutions) or strongly abrasive scouring or cleaning agents.

Notes on processing:

- Before product application, check substrate for suitability and product compatibility
- If substrate testing is not feasible, remove the old coat down to the open wood
- Avoid exposure to direct sunlight, moisture and soiling during processing and drying
- Minimum processing temperature 10 °C, max. 30 °C, max. 85% rel. humidity, optimum 20-23 °C, 50-65% rel. humidity
- Wood moisture content max. 12% in hardwood 15% in softwood
- Stir product thoroughly before use
- Apply successive coats quickly after complete drying of each coat
- Do not expose unfinished coats to weather for longer periods
- Take the yellowing effect typical of this product into account
- The degree of gloss varies with the wood type and is reduced in outdoor use
- The renovation cycle depends, among other things, on the surface wear load and colour selection and may be as long as 4 years if the coats are applied properly
- For optimum, lasting protection, the surfaces must be checked and cared for regularly, at least twice yearly; repair damage immediately
- Depending on the object involved, a shorter renovation cycle may be required. Timely care and renovation measures increase the life of the paint job
- Use only sealants and tapes that are compatible with the products
- Use the same treatment for windows and outside doors, indoors and outdoors
- Check fenestration seals for proper function and replace as required
- Allow window frame coats to dry thoroughly before closing windows
- Do not reinstall wooden components, e.g. windows, wood panels, until intermediate treatment has been carried out on all sides
- All coating work should first be coordinated with the type of object involved and the use to which it is put. In particular, see Technical Guidelines No. 3, No. 18, No. 20, BFS (Federal Paint and Property Protection Committee), Coat Check, Initiative Pro Wooden Windows (download at www.auro.com)

The information contained in this technical data sheet provides recommendations and possible examples. It is non-binding and does not constitute a basis for liability. Use of advice does not constitute a legal relationship. The information provided reflects the current state of our knowledge and experience and does not free the user from the obligation to make his or her own tests to check the suitability of the product for the intended purpose. State-of-the-art technology must be taken into account for all paint jobs and preparations thereto. Conditions applying to the object and product suitability must be checked and tested properly. This Technical Data Sheet is no longer valid when a new edition appears. Status: 15.06.2008, complete revision

*See the relevant Technical data sheets.

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