

## AURO Woodstain coloured/transparent No. 160

### Type of material

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

### Intended purpose

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

### Technical properties

- Tested in accordance with DIN EN 71 Part 3, "Safe for toys".
- Tested in accordance with DIN 53160, "Saliva and sweat-proof".
- Coloured, tested according to DIN EN 927 on wood with reduced dimensional stability.
- Colourless (transparent) only for interior work and for surfaces not exposed to weathering.

### Composition

Water, linseed oil\*, colophonium glycerine ester with organic acids, mineral fillers, surfactants (made from rapeseed and ricinus oils), mineral pigments, silicic acids, dryers (cobalt-free), castor stand oil, sunflower seed oil, titanium dioxide, \*as ammonium soaps, cellulose, fatty acids.

No. 160-00 contains no pigments.

Natural paints are not odourless or free of emissions. May cause allergic reactions. See the current full declaration on [www.auro.de](http://www.auro.de).

**Colour shades** See color cards or product list. The colorless woodstain confers a light honey tone.

**Important** Differences in colour hue and degree of gloss are possible with different batches. Mix different batches before application. The stain tones also differ in appearance when applied to different woods, so that a test coat is always advisable. All stains can be mixed with each other freely. Mixtures of coloured stains with colourless stains reduce weather resistance and shorten renovation cycles. Customers create mixtures at their own risk. See the Check list for exterior wood coatings available under Downloads at [www.auro.de](http://www.auro.de) for reference.

**Application method** Stain brush (synthetic or mixed-fibre bristles, e.g. AURO tools).

Spraying equipment	High-pressure	Mist reduction (HVLP)	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 in standard climate (23 °C/ 50% rel. humidity)

- Dust dry after approx. 10 hours, re-coatable after approx. 24 hours, final dryness 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<sup>3</sup>, depending on colour hue. **Hazard class** Does not apply. **Viscosity** Approx. 30-60 seconds (DIN 6 mm) at 20°C.

**Thinner** Product is supplied ready for use, thinnable with max 20 % water.

**Consumption rate** 0,07 - 0,09 l/m<sup>2</sup> 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.

**Cleaning of tools** Carefully brush out product after use, then wash out with AURO Plant soap No. 411\* and water. Remove sticking hard product residues by soaking the tools for longer periods in soap solution or with AURO Orange oil 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: 24 months. Store out of reach of children in a cool, dry, frost-free place.

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

**Disposal** Liquid residues: EWC code 080112, 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.

**Attention** 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 metal 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 recommendations for application

## AURO Woodstain coloured/transparent No. 160

### 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. COATING SYSTEM

#### 2.1 Substrate preparation

- Test the existing substrates and old coatings regarding their adhesion ability and compatibility.
- Not adhesive, not suitable old coatings, e.g. greyish or heavily weathered old coatings, must be removed completely until the sound wood.
- 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.
- Wood rich in substances, resinous and tropical wood needs to be washed with alcohol thinner and finely sanded again.
- 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 might be 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*"

#### **Pre-treat 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*, available for download online.

#### 2.2 Priming

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

#### 2.3 Intermediate treatment

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

#### 2.4 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/m<sup>2</sup> for optimum protection. Between coats, after drying, fine sanding (220 grit or grinding pad) and dust removal is recommended; be careful not to damage edges.

### 3. CLEANING AND MAINTENANCE

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.

### REMARKS

- 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 coatings to the weathering.
- 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
- For optimum, lasting protection, the surfaces must be checked and cared for regularly, at least twice yearly; repair damage immediately
- Timely maintenance and renovation contribute to a better durability
- Use only sealants and tapes that are compatible with the products
- For windows and outside doors, the same application sequence should be used both 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), Check list for exterior wood coatings (download at [www.auro.de](http://www.auro.de)).

\* See respective Technical Data Sheets.

The Technical Data Sheet gives recommendations and examples of possible use. No liability or other legal responsibility can be derived. Use of the advice does not create any legal relationship. The information provided is based on our present knowledge and does not exempt the user from his personal responsibility. The respective state-of-the-art practices must be observed when implementing coating work and the required preparations. The conditions on site and the product's suitability must be checked appropriately and professionally. With publication of a new edition this technical data sheet is no longer valid. Status: 01.01.2013 technical data | 14.08.2013 full declaration