



AURO COLOURS FOR LIFE Gloss paint No. 516 / 516-90

Technical Data Sheet

Type of material

- Environment friendly, water-thinnable opaque wood finish, for interior and exterior use, based on the binding agent Decovery®.
- Available in white (516-90) and over 1000 more colours for interior and exterior use.
- Glossy, solvent-free, without wood preservative.
- Consistently ecological choice of raw materials.

Intended purpose

- as an opaque, white or coloured coating on wood, wood-based materials, veneered surfaces, metals for interior and exterior use, certain plastics and tiles.
- The necessary layer thickness and full colour effect are achieved with at least two coats with approximately 0,06 to 0,09 l per m².

Technical properties

- Tested according to DIN EN 71, part 3, "safe for toys" and to DIN 53160, "saliva- and perspiration-proof".
- Values according to EN 13300: Abrasion class 1, Opacity class 1 at a consumption of about 0.08 l/m² (corresponds to 12.5 m²/l).
- sd value: approx. 0.5m to 0.6m. The value depends on the layer thickness of the applied material.
- Degree of gloss (approximate values): 50 at 20°, 80 at 60° and 95 at 85° measuring angle. These values relate to the white Gloss paint No. 516-90, the gloss degrees of the over 1000 COLOURS FOR LIFE shades depend on the selected colour shade.

Composition

Water, Decovery®, titanium dioxide, mineral pigments, cellulose, surfactants made of rapeseed oil and castor oil, silicates, liquid ammonia, Benzisothiazolinon, sodium pyrithione. Current full declaration on www.auro.de/en. Information for allergy sufferers on 0531-28141-0.

Colour shade

Available in over 1000 shades displayed in the COLOURS FOR LIFE colour tone fan and on www.auro.de/en. The colour effect can vary depending on the type of wood (woodgrain) or substrate condition, therefore we recommend a representative test coating before application on large areas. After application, claims based on colour tone variations cannot be accepted.

Due to technical reasons, minor deviations in colour tone can occur between mixtures of the same colour tone on different machine types. For paint mixtures in the COLOURS FOR LIFE system, the Technical Guidelines No. 25 of the BFS (Federal Paint and Property Protection Committee) apply.

Application method

Brushing, rolling (synthetic or mixed-fibre brushes, fine-pore foam rollers, short-pile finishing rollers). AURO offers an assortment of high-grade tools. The COLOURS FOR LIFE Gloss paint No. 516 can also be applied by spraying (high pressure, mist-reduced, airmix). Tested with Wagner SF23Plus and pistol Vector Grip. Nozzle type FineFinish TT3, nozzle size 410, gun filter red. Spray pressure 100 bar.

Drying time at 23°C/ 50% relative humidity

Dust dry after approximately 2 hours, workable after approximately 6 hours, curing time approximately 24 hours.

Density: 1.02 - 1.30 g/cm³, depending on colour shade.

Thinner: Product is ready for use, thinnable with max 5 % water.

Consumption rate: 0.06 – 0.09 l/m² per coat, corresponds to approx. 70-90 µm wet layer, on smooth, evenly absorbent substrates. Consumption rates depend on substrate, processing method, surface quality. Determine exact consumption on sample coating.

Cleaning of tools: Immediately after use remove product residues from the tools by brushing out and wash with water. Remove stubborn product residues by soaking the tools for longer periods in soap solution (AURO Plant Soap No. 411*) and wash thoroughly with water.

Storage stability: At 18° C in unopened original container: 24 months.

Packaging material: Tinplate.

Disposal: Return completely emptied containers for recycling. Only dried product residues can be disposed of as dried paint or with the household waste. Liquid residues: EWC code 080120, designation: paints, lacquers.

Attention

Product code: BSW10, coating materials, water-based, low in preservatives. Use protective glasses and A2/P2 combination filter when spraying. Avoid eating, drinking and smoking while using the paint. In case of contact with eyes or skin, rinse immediately with plenty of water. Do not allow to enter drains, waterways or soil. Observe the information on the safe handling of the product, on labelling and hazardous substances contained in the Safety Data Sheet (download from www.auro.de/en) and on the product label.

Hazard class: Does not apply.

EU VOC value according to 2004/42/EC II A (dWb): 130 g/l (2010). Product VOC: <= 1 g/l.

Technical recommendations for application

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1. SUBSTRATE

1.1 Suitable substrates: For interior and exterior use: wood, wood-based materials, veneered surfaces, metals e.g. textured sheet metal or aluminium profiles, non-rusting metals can be coated directly, rusting metals after pre-treatment with Rust protection primer No. 519. Can also be used as radiator paint up to 70°C. Certain plastics can also be coated, especially polar plastics e.g. PA, PET or PVC, tiles are also possible. Preliminary tests may reveal release agents or incompatibilities. **Not suited** for floors and for wood with soil contact. Also **not suited** for level surfaces durably exposed to water or surfaces under strong mechanical load (constructive wood protection).

1.2 General substrate requirements: The substrate must be clean, firm, free of separating or bleeding substances.

2. COATING SYSTEM (UNTREATED WOOD, WOOD-BASED MATERIALS)

2.1 Substrate preparation: Round off edges, clean the substrate, roughen (wear a dust mask), remove dust thoroughly. For high-quality surfaces on smooth woods, first wet with sponge, allow to dry, sand finely with the grain, brush out pores, remove all dust and clean. Use only rust-free grinding agents. Wood rich in active substances and resin, tropical woods: wash 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. Wood based materials: seal off the edges watertight.

2.2 Basic treatment

Test woods rich in ingredients and resins, e.g., larch, for drying problems by applying a test coat!

Wood types rich in active substances must be primed with AURO COLOURS FOR LIFE Paint primer No. 510*, for example:

- Wood rich in tanning substances (e.g., oak, chestnut, framire etc.) to prevent drying delays
- Wood with bleeding or staining contents, especially before light-coloured or white coatings
- Wood treated with boron salt or boiler pressure impregnated wood to prevent efflorescence.

Other wood types can be primed with AURO COLOURS FOR LIFE Gloss paint No. 516 itself, diluted with 5% of water.

2.3 Intermediate treatment: Fill and level damaged spots with a suited filler. Apply 1 coat of AURO COLOURS FOR LIFE Gloss paint No. 516.

2.4 Final treatment: Apply at least one more coat of AURO COLOURS FOR LIFE Gloss paint No. 516. Between coats, fine sanding (220 grit or grinding pad) is recommended, depending on the substrate and surface quality. Be careful not to damage edges and remove all dust thoroughly.

3. COATING SYSTEM (UNTREATED IRON PARTS)

3.1 Substrate preparation: Iron parts that are not factory-primed: Clean the surface and remove rust down to blank metal with a wire brush or by sanding (60-120 grit). Remove dust. Do not use rust converters.

3.2 Basic treatment: Prime with 1 even coat of AURO COLOURS FOR LIFE Rust protection primer No. 519* After drying, it is recommended to sand finely (220 grit or grinding pad); do not damage edges; remove dust.

3.3 Final treatment: Apply 2 coats of AURO COLOURS FOR LIFE Gloss paint No. 516. Repeat coating, if necessary, to achieve the requested colour effect and surface quality.

4. COATING SYSTEM (RENOVATION)

4.1 Type of surface: greyed or damaged old coatings (repair)

4.1.1 Substrate preparation: Test substrates, old coatings on adhesion and compatibility. Remove non-adhering or unsuitable old coatings, e.g., greyed or heavily weathered old coats, completely, to expose the firm wood structure.

4.1.2 Subsequent treatment: New coating sequence as described under item 2.

4.2 Type of surface: intact old coating (maintenance)

4.2.1 Substrate preparation: Clean the substrate thoroughly, roughen (wear a dust mask), remove dust.

4.2.2 Basic treatment: Does not apply on intact, adhesive surfaces

4.2.3. Subsequent treatment: As described under items 2.3 and 2.4.

5. 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), strongly abrasive scouring or cleaning agents, microfibre etc.

PLEASE NOTE

- Stir well before use. Slight variations or gradual lowering of gloss degree do not represent a product defect; the same applies for colour shade deviations of different production batches. Check substrate on suitability and compatibility prior to paint application.
- If a thorough surface check cannot be carried out, remove old coatings down to the bare wood or the intact substrate.
- Avoid exposure to direct sunlight, moisture and dirt during processing and drying time.
- Minimum processing temperature: 10°C, max. 30°C, max. 85% rel. humidity; optimal is 20-23 °C at 50-65% rel. air humidity.
- Wood moisture content max. 12% in hardwood 15% in softwood
- Carry out follow-up coatings promptly, following the recommended coating system.
- Do not expose unfinished coats to weather for longer periods.
- Surfaces must be checked at least once a year and defects be repaired immediately to provide for durable protection. Timely maintenance and repair provide for longer durability.
- Only use sealants and adhesive tapes that are compatible with the product. On windows and doors, the same coating sequence should be applied. Check the sealing of the glass and renew if necessary. Let the coating dry through completely before the windows are closed.
- All coating work must be adapted to the given object and its use. In particular, see Technical Guidelines No. 20, No. 26 of the BFS (Federal Paint and Property Protection Committee).

* 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: 01.02.2024