

AMOTHERM[®] WOOD 640 WB

Low-thickness water-based two-component varnish with a natural effect for wooden floors

Rev. March 2024

Transparent, flame retardant varnish

Characteristics: Water-resistant polyurethane, two-component, non-yellowing, ready-to-use paint product. The flame-retardant principle of the product relies on particular reactive substances that, when exposed to the action of a flame or the heat from a fire, chemically decompose to produce inert gases and other fire-extinguishing compounds that minimize the flame propagation and decelerate the wood's carbonization.

Fields of use: Fire protection system, used to reduce the reaction to fire of indoor wooden floors and particularly suitable where low solvent emission is required during product installation (e.g. schools, kindergartens, etc.).

Technical performance: the product is classified:

- **REACTION TO FIRE:**
 - EUROCLASS C_{fl} s1 in accordance with EN 13501- part 1. The classification is valid for the protection of all wood-based supports, in the conditions of use on the floor, as prescribed by the technical criteria specified in the EN 9239-1 reaction to fire tests for floors and EN ISO 11925 Reaction to fire tests — Ignitability of building products subjected to direct impingement of flame: Part 2: Single flame source test.

Technical Data

Characteristics	
Components:	Dual-component
Colour:	Transparent, colourless
Gloss:	Dull matt: 8 - 12 gloss Matt: 19 - 25 gloss
Mass by volume:	➤ 1,02 +/- 0,05 g/cm ³ comp. "A" ➤ 1,12 +/- 0,05 g/cm ³ comp. "B"
Test viscosity:	➤ 30 – 35 s (DIN 3) comp. "A" ➤ 1100 – 1300 mPas (BROOKFIELD) comp. "B"
Dry residue in weight:	➤ 29 - 33% comp. "A" ➤ 100 % comp. "B"
Catalysis ratio:	100:10 by weight
Pot life	4 hours
Drying time:	▪ dust dry 30' ▪ dry to handle 12- 24 hours
Recoatable:	after min. of 12 hours from the last coat with intermediate sanding between coats
Storage:	1 year in the original closed container at a temperatures between 5°C and 30°C.
Packaging:	as per price list

The technical data given above refer to the results obtained for the transparent formula, colourless, in the matt finish. The product application details were obtained in normal environmental conditions (temperature 20 °C and relative humidity 60%) and refer to the application of a wet film of thickness 80 micron. Application of different thicknesses and/or in different environmental conditions may lead to considerable variations in the technical features given above.

AMOTHERM[®] WOOD 640 WB

Low-thickness water-based two-component varnish with a natural effect for wooden floors

Rev. March 2024

How to apply

All technical product documentation is available on the company website and can be downloaded from www.amonncolor.com and the dedicated section of *My Amonn*.

A summary of the standard operating conditions for the correct application of this protective system is given below.

Surface preparation: The application must be carried out directly on raw wood or treated with non-film-forming impregnation, free from waxes or water-repellent products.

The surfaces to be treated must be clean and dry; we recommend carefully removing dust and any traces of oil and grease.

Before application, it must be checked that the moisture content of the media is less than $9 \pm 2 \%$ (EN 13489).

Application quantity: 150 g/m² to 300 g/m² (depending on desired aesthetic effect)

Product preparation: Mix component "A" thoroughly, then add the catalyst and mix the mixture well to homogenize the product for proper catalysis. After mixing, the product should be used within the shelf life of the mixture.

Dilution: Ready to use.

Application methods: The product can be applied by roller, brush and spray following the application cycle shown:

for consumption from 150 g/m²

- Apply a coat of 75 g/m² of AMOTHERM WOOD 640 WB.
- After at least 12 hours sand with grit mesh abrasive, grain 220-240
- Apply a second coat of 75 g/m² of AMOTHERM WOOD 640 WB.

for consumption from 300 g/m²

- Apply a coat of 100 g/m² of AMOTHERM WOOD 640 WB.
- After at least 12 hours sand with grit mesh abrasive, grain 220-240
- Apply a second coat of 100 g/m² of AMOTHERM WOOD 640 WB.
- After at least 12 hours sand with grit mesh abrasive, grain 220-240
- Apply a third coat of 100 g/m² of AMOTHERM WOOD 640 WB

The guarantee of adherence between hands essentially depends on respecting the times of over-painting and the execution of sanding.

It is recommended to operate with room and product temperature above 10°C and maximum relative humidity of 65 percent.

The floor can be tread upon 24 hours after the last application, while maximum resistance is achieved after approximately 10 days.

Tool cleaning: with water, immediately after use.

Warnings and safety:

- The product for professional and industrial use does not require training under EU Regulation 2020/1149. Free monomer content (di-isocyanate) <0.1% in catalyst.
- With prolonged storage, the flame retardants in the product tend to settle to the bottom of the packaging. It is recommended to mix the product thoroughly before using.
- The product is moisture sensitive it is therefore recommended to verify the environmental conditions during the application and drying phase.
- All paints are sensitive to certain particularly aggressive products used to clean surfaces (ammonia detergents, solvents, sodium hypochlorite, ethyl alcohol in high concentrations, concentrated acids, detergents containing abrasive substances, etc.). To avoid any inconvenience, painted surfaces must always be cleaned with water-based, pH-neutral detergents.

AMOTHERM[®] WOOD 640 WB

Low-thickness water-based two-component varnish with a natural effect for wooden floors

Rev. March 2024

- This product is provided for professional/industrial use and professional applicators only. It is recommended that you always refer to product SDSs for health and safety provisions and storage and disposal rules.

The instructions provided in this document represent the most recent state of the information, development and use of product. The application of the materials is out of our control and, therefore, we can only answer for the constant quality of the product supplied.