



# Aqua 2HL-411/90-2K High Gloss Varnish

Light-fast, two-component clear topcoat for high-gloss varnishes

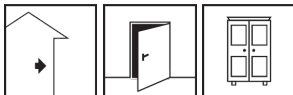


Colour	Availability
	Quantity per pallet 96
	<b>Size / Quantity</b> 5 l
	Type of container Tin bucket
	Container code 05
	<b>Art. no.</b>
clear	3872 ■

**Application rate** 80 - 120 ml/m<sup>2</sup> per coat



**Range of use**



- Wood and wood-based materials
- High-quality furniture and fittings
- Exclusive interior fixtures, kitchen and bathroom furniture
- Primer: on coloured MDF boards
- Primer & topcoat: transparent high-gloss surfaces
- Topcoat: on Aqua 2CL-442 for coloured high-gloss surfaces
- For use by professionals

**Property profile**



- Good flow properties
- Quick-drying
- Efficient coating system thanks to high filling power
- Minimal sinkage of the varnish film
- Can be polished once cured
- High-gloss surfaces
- Lightfast
- Excellent resistance to chemicals
- Good resistance to a wide range of commercially available hand creams

**Characteristic data of the product**

Density (20 °C) Approx. 1.03 g/cm<sup>3</sup>

The values stated represent typical characteristic data of the product and are not to be understood as binding product specifications.

**Certificates**

- **DIN EN 71-3 "Migration bestimmter Elemente"**

**Test standards**

DIN 68861-1B Resistance to chemicals

**Additional information**

- **Pflegehinweise für lackierte Möbeloberflächen**

**Possible system products**

- **Aqua H-484 Hardener (5500)**
- **Aqua V-490-Retarder (1939)**
- **Aqua 2SL-452-2K Finish (5501)**
- **Aqua 2CL-442-2K Colour Varnish (5505)**
- **Aqua Beizen**

**Preparation**

- **Substrate requirements**



The substrate must be clean, dry, free of dust, grease and loose substances, and prepared in the correct manner.

Wood moisture content: 8-12%

■ **Substrate preparation**

Wash off greasy or resin-rich woods/substrates with WV-891 or V-890. Use UN-894 indoors on the construction site. Ensure good ventilation for solvents.

Sand using a sandpaper grit of P150-180.

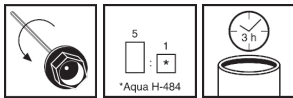
Sand panels using P 180 - 320 grit.

Transparent high-gloss systems: if a colour finish is desired, stain the substrate with Aqua KB-004, Aqua BB-007 or Aqua PB-006.

Coloured, opaque high-gloss systems:

Aqua 2CL-442 on a suitable substrate.

**Production of the mixture**



■ **Mixing**

5:1 with Aqua H-484 by volume (5:1 by weight)

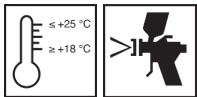
Add hardener while stirring and homogenise the mixture for at least 2 minutes using the Remmers Patent Disperser.

If necessary, dilute the varnish/hardener mixture with max. 10% water.

If necessary, add max. 3% V-490 to the varnish/hardener mixture as a retarding agent.

Working time max. 3 hours under gravity; may be reduced at higher temperatures.

**Directions**



■ **Conditions for use**

Temperature of the material, air and substrate: from min. +18 °C to max. +25 °C.

Spray.

Flow cup gun: nozzle size: 1.6 - 1.8 mm; atomiser air pressure: 2 - 3 bar.

If necessary, apply a second coat of the product after drying and intermediate sanding (P 320 - 600).

Seal opened containers well and use contents as soon as possible.

Mixed material residues must not be allowed to cure in closed containers.

**Tips on use**



Check colour, adhesion and compatibility with the substrate by setting up a trial area.

When coating surfaces finished with a coloured varnish, a maximum of 5% of the coloured varnish can be added to the product if necessary. In such cases, it is essential to check the colour.

■ **Drying**

Dust-dry: after approx. 30-45 minutes

Overcoating: after approx. 12 hours

Ready for polishing: after approx. 3 days

Practice values at +20 °C and 65% relative humidity.

Low temperatures, poor ventilation and high humidity delay drying.

■ **Thinning**

Ready to use; if necessary dilute with max. 10% water and/or add max. 3% V-490 as a retarding agent.

**Notes**

DIN EN 71-3 "Migration of certain elements":

This product complies with the limits for the migration of heavy metals to children's toys according to DIN EN 71-3 and thus fulfils one of several further requirements for the safety of children's toys according to the EU "Toy Directive" (2009/48/EC).

To preserve the quality of the surface, we recommend regular cleaning and care using a lint-free cotton cloth. Please use solvent-free and silicone-free cleaning agents.

Before coating technically modified woods and wood-based materials, apply the coating to a trial surface and conduct a suitability test on the desired area of use.

This product cannot be used for wet-on-wet coatings (as are common in solvent-based high-gloss varnishing systems).

Coated horizontal surfaces should only be turned for further processing steps after approx. 12 hours of drying time (in order to prevent foaming).

**Tools / Cleaning**

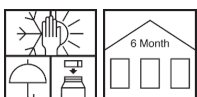


Flow cup gun

Clean tools with water or Aqua RK-898 Cleaning Concentrate immediately after use.

Ensure that any residue from cleaning is disposed of correctly.

**Storage / Shelf life**



If stored unopened in its original container in a cool, dry place and protected against frost, the product will keep for at least 6 months.



**Safety data / Regulations**

For further information on the safety aspects of transporting, storing and handling the product and on disposal and environmental matters, please see the current Safety Data Sheet.

**Personal protective equipment**

Respiratory protection with at least an A/P2 combination filter must be worn during spraying, together with safety goggles. Wear suitable protective gloves and clothing.

**Disposal**

Larger quantities of leftover product should be disposed of in the original containers in accordance with the applicable regulations. Completely empty, clean containers should be recycled. Do not dispose of together with household waste. Do not allow to enter the sewage system. Do not empty into drains.

**VOC content as per the "Decopaint" Directive (2004/42/EC)**

EU limit value for the product (cat A/j): max. 140 g/l (2010).  
This product contains < 140 g/l VOC.

VOC	
Kat.	A/j
2010:	140g/l
max.:	140g/l

Please note that the data and information given above have been calculated as guidelines in the laboratory and from real-life experience and are therefore not binding as a basic principle.

This information is therefore of a general nature only and describes our products and how they are used and worked with. In this respect, it must be borne in mind that the varied and diverse nature of the

prevailing working conditions, materials used and construction sites encountered means that not every individual case can be covered. In this respect, we therefore recommend either conducting tests or liaising with us in the event of any doubt. Unless we have provided express written assurance of the products' specific suitability or characteristics in respect of a contractually stipulated intended use, any technical application-related advice or instruction will never

be binding, even though it is provided to the best of our knowledge. In all other respects, our general terms and conditions of sale and delivery shall apply.

When a new version of this Technical Data Sheet is published, it shall replace the previous version.