



Aqua CL-445 Colour Opaque 4 in 1

1-component, multi-layer colour varnish for use as sealing layer, filler, coloured coating and topcoat



Colour	Availability				
	Quantity per pallet	672	200	96	22
	Size / Quantity	0,75 l	2,5 l	5 l	20 l
	Type of container	Tin bucket	Tin bucket	Tin bucket	Tin bucket
	Container code	01	03	05	20
	Art. no.				
Aqua CL-445/10 dull matt					
white (RAL 9016)	3146	■	■	■	■
pure white (RAL 9010)	3147			■	■
special colours	3148	■	■	■	■
Aqua CL-445/30 semi-matt					
white (RAL 9016)	3796	■	■	■	■
pure white (RAL 9010)	3797			■	■
special colours	3798	■	■	■	■

Application rate 150 - 200 ml/m² per coat, min. 2 coats



Range of use



- Interior wood
- Solid wood and wood-based materials
- Interior finishing work: e.g. panels, borders, cladding & interior doors
- High-quality furniture
- For use by professionals



Property profile



- Single-component: simple and economical handling
- Functions: sealing layer, filler, coloured coating and topcoat
- Good flow properties
- Quick-drying
- Good hiding power
- Very high resistance to metal rings
- Good resistance to chemicals
- Good resistance to a wide range of commercially available hand creams
- Lightfast
- Fire behaviour according to DIN EN 13501-1: C-s1,d0 on suitable substrates
- 2K-ready: further improvement of the resistance to chemicals and scratches, as well as adhesion to glass, by adding 2% Aqua VGA-485 (isocyanate-free)

Characteristic data of the product

Binder	Acrylate/PU dispersion
Density (20 °C)	1.04 - 1.2 g/cm ³
Odour	Characteristic

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 of certain elements"
- French VOC Emission Test
- Classification of reaction to fire in accordance with DIN EN 13501-1 (C-s1, d0)

Additional information

- Maintenance instructions for varnished furniture

Possible system products

- Aqua VGA-485 Cross-Linking Agent & Glass Lacquer Additive (3256)
- Aqua TL-412 Stair Varnish (2372)
- Aqua PF-430 Pigment & Sealing Filler ^[iac] (3265)
- Aqua HWS-712 Hard Wax Seal ^[eco] (5290)
- Aqua V-490-Retarder (1939)

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%

MDF boards: bulk density $\geq 700 \text{ kg/m}^3$

■ **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 wood using P 100 - 180 grit.

Sand panels using P 180 - 320 grit.

Directions



■ **Conditions for use**

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

Stir well, including during application or after a break in work.

Spray.

Flow cup gun: nozzle size: 2.0 - 2.5 mm; atomiser air pressure: 2.0 - 3.0 bar.

Airmix spraying: nozzle size: 0.23 - 0.28 mm, material pressure: 80 - 100 bar, atomiser air pressure: 1.2 - 2 bar.

Airless spraying: nozzle size: 0.23 - 0.28 mm, material pressure: 80 - 120 bar.

Use a coarse push-in filter for dull matt and textured products.

After drying and intermediate sanding (P 240 - 320), apply a second coat of the product.

Repeat the process if necessary.

Intensive colours, such as yellow, red, etc. may have a lower hiding power due to their pigments. Apply an additional coat if required.

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

Tips on use



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

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

The ring resistance and the tendency of the surface to shine up under mechanical stress are strongly dependent on the gloss level selected: higher gloss levels are generally more robust here than extremely matt finishes. In the case of increased, constant stress, a clear coating may therefore be advisable.

To ensure optimum resistance to metal rings and to improve the resistance to chemicals, we recommend coating with a suitable, light-fast clear varnish.

When coating surfaces finished with a coloured varnish, add 5-10% of the Aqua colour varnish to the clear varnish in order to counteract changes in the colour shade.

■ **Drying**

Dust-dry: after approx. 1 hour

Ready for overcoating: after approx. 3-4 hours

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

Low temperatures, poor ventilation and high humidity delay drying.

■ **Thinning**

Ready to use; dilute with 2-5% water if necessary.

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.

Please refer to the relevant test reports/certificates and the Technical Data Sheet for information on certified products and configurations.

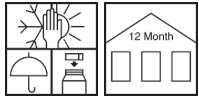


Tools / Cleaning



Airless/airmix spraying equipment, 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 12 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.

Biocidal Products Regulation

Contains a biocidal product (in-can preservative) with the biocidal agents CMIT/MIT (3:1) for protecting the container content from deterioration by microbial organisms (germs, yeast, etc.). Please note the processing guidelines carefully!

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

EU limit value for the product (cat A/d): max. 130 g/l (2010).
 This product contains < 130 g/l VOC.

VOC	
Kat.	A/d
2010:	130g/l
max.:	130g/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.