



Aqua VL-66/sm-Venti Coat 3in1

Water-based, all-in-one coating system with an isolating effect for high-value wooden structures



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.				
white (RAL 9016)	7090	■	■	■	■
anthracite grey (RAL 7016)	7091		■	■	
light grey (RAL 7035)	7092		■	■	
special colour	7096	■	■	■	■
base A	015097	■	■	■	■
base C	015099	■	■	■	■

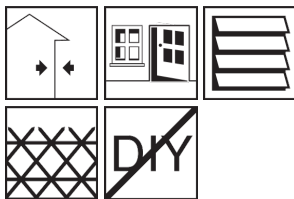
Application rate

100 - 120 ml/m² per coat

2 coats are required to seal off substances contained in the wood.



Range of use



- For use on interior and exterior wood
- Dimensionally stable wood building elements: e.g. windows and doors
- Wood building elements with limited dimensional stability, e.g. folding shutters, matchboarding, summerhouses
- Wood building elements with no dimensional stability: e.g. fences, framework, carports, planking
- Wooden ceilings and wood panelling
- Stable old coatings
- Not suitable for coating flooring (terraces, wooden decking, etc.)
- For use by professionals

Property profile



- Water-based
- Base coat, intermediate coat and topcoat all in one
- Ventilating effect
- Block resistant (in accordance with Code of Practice HO.03)
- Isolating effect against substances contained in the wood
- Inhibits rust from screws and nail heads
- Highly weather-resistant and low-chalking
- Reduces discolouration due to nicotine
- Very good adhesion to the substrate
- Resistant to yellowing

Characteristic data of the product

Density (20 °C)	Approx. 1.01 g/cm ³ - 1.30 g/cm ³ (depending on the colour)
Viscosity	Approx. 1800 mPa•s
Odour	Mild
Degree of gloss	Silk matt

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 Safety for children's toys**



Additional information

➤ [Sustainability data sheet](#)

Possible system products

- [Aqua IG-15 Impregnation Primer IT* \(7145\)](#)
- [Induline SW-910 \(3777\)](#)
- [Aqua OZA-90 Open Time Additive \(5320\)](#)
- [Aqua PL-413 Parquet Varnish \(2374\)](#)
- [Aqua MM-825 Matting Agent \(3875\)](#)

*Use biocidal products carefully.
Always read the label and product information before use.

Preparation

■ **Substrate requirements**

Dimensionally stable wood building elements: wood moisture content 11-15%
Wood building elements with limited or no dimensional stability: wood moisture content max. 18%

■ **Substrate preparation**

Thoroughly remove any dirt, grease and non-adhering old coatings.
Thoroughly sand any old coatings that are still intact.
Sand grey and weathered wood surfaces down to sound, bright wood.
Aqua IG-15 Impregnation Primer IT* should be used to pre-treat exterior wood which requires protection against insects, rot and blue stain - omit step for interior wood. (*Use biocides safely. Always read the label and product information before use.)
Observe BFS Code of Practice No. 18 "Coatings on Wood and Wooden Working Materials in Outdoor Areas".

Directions



■ **Conditions for use**

Optimum temperature of the material, air and substrate: from min. +10 °C to max. +25 °C.
Relative humidity 50% - 65%.

Stir well.

Apply with a brush, roller or by spraying.

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

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

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

Re-coat once dry.

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

Tips on use



Prior to full application, please apply a test coat to a sample area under practical conditions using the desired system, then test or examine the surface properties.

Check colour and compatibility with the substrate by applying a trial coat.

Do not use below +5 °C

If the temperature is too low or the humidity too high, it will take longer for the material to reach the desired properties.

If the temperature is too high or the humidity too low, the material will dry more quickly. In such cases, we recommend adding Aqua OZA-90 Open Time Additive.

Areas that are being coated or dried should be protected against rain, wind, sunlight and condensation.

The colour shown on the sample does not appear until the material has dried.

Bright, intense colours such as yellow, orange and red may have a lower covering capacity as a natural consequence of the pigments used. When using these colours, it is therefore recommended either to first apply a coat of a similar colour with a greater covering capacity, or to apply a second coat in the desired colour.

The layer thicknesses must be complied with in order to attain the flow properties and hiding power.

The gloss level can be changed from silk matt to matt by adding 5% Aqua MM-825.

■ **Drying**

Dust dry: after 1 - 2 hours

Can be overcoated: after approx. 6 hours

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

The coating may take significantly longer to dry thoroughly in lower temperatures, at high humidity or if the maximum layer thickness has been exceeded.

Longer drying times can improve the sealing effect.

■ **Thinning**

If necessary, dilute with up to 5% water or Aqua OZA-90 Open Time Additive.

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).



Insulation of resins and substances contained in the wood.

The instructions regarding coats, application volumes and drying times for the coating system must be followed to ensure the best possible insulation for water-soluble substances contained in the wood (flat surfaces and branches). The first coat can activate substances in the wood and discolour the film on the coating, which will lock the substances inside the film. The second coat of insulating product will then seal off the substances contained in the wood.

At least two coats of the product are required to achieve an efficient insulating effect.

If discolouration continues even after following these steps, we recommend contacting our RTS (Remmers Technical Service).

Bleeding resin is a natural phenomenon and cannot be prevented by coating measures, see BFS Code of Practice No. 18.

Please check paint compatibility with plasticised seals in advance, alternatively use plasticiser-free products (e.g. TPE seals).

The product's insulating effect may be impaired if it is diluted too thinly, if the wood is too wet or if the recommended coating sequence, application volumes and drying times are not observed. With water-based coating systems, there is always the residual risk that substances contained in the wood will leach out. On planed larch and softwoods with a high resin content, the coating may have reduced adhesion and resistance to weathering. This is especially the case on horizontal year rings, knots and areas of winter growth that are high in resin. Maintenance and renovation must be carried out more frequently on these surfaces. The only remedy for this is pre-weathering or very coarse sanding (P80). If these wood types are rough-sawn, considerably longer maintenance and renovation intervals are to be expected.

Observe the regulations concerning design principles for wood protection.

Do not use on horizontal surfaces without drainage slopes and without edge radius, avoid accumulated moisture.

Tools / Cleaning

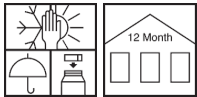
Paintbrush with acrylic bristles, flat brush, foam roller, flow cup gun, airless/airmix spraying equipment



Clean tools immediately after use with water and detergent.
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 a particle filter P2 must be worn during spraying, together with protective 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.