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Technical data sheet

Paint runs through our veins.

Aquawood Primo A1 5451

Colourless **protective wood impregnation treatment** for **wooden windows and exterior doors**, for use in industry and trade
Optimised for a **3-layer coating system**

PRODUCT DESCRIPTION

General

Water-based, colourless, ready-to-use protective wood impregnation treatment containing biocidal active substances. Stand-out features of this product include excellent resistance to sagging on both hardwoods and softwoods.
Contains highly effective light stabilisers to absorb UV radiation and stabilise the lignin in the wood.

Special properties and standards

- **Approval as a wood preservative (PT8)**
  according to the Biocidal Products Directive of the EU.
- **French ordinance DEVL1104875A**
  Marking of construction coating products for their emission of volatile pollutants: A+
- **Certificate of appreciation (05/93)**
  ARGE Holzschutzmittel (wood preservatives consortium), Association of the Austrian chemical industry
- **Registration number:**
  Austria: AT-0011986-BPF | Bulgaria: 3020-1 |
  Croatia: KLASA: UP/I-543-04/21-12/03 | Cyprus: KY-0218 |
  Czech Republic: CZ-0025667-0000 | France: FR-2016-0040 |
  Germany: DE-2013-BPF-08-00001 | Greece: ΤΠ8-0042-ΟΠ |
  Hungary: HU-2013-MA-08-00064-BF | Italy: IT/2015/00303-02/mrspf |
  Luxembourg: 216/22/L-M00-000 | Norway: NO-2021-0200 |
  Poland: PL/2014/0136/MR/BPF |
  Romania: RO/2022/0352/MRS/ AT-0011986-BPF |
  Slovakia: SK13-MRS-009-00-000 | Slovenia: SI-0029260-0000 |
  Spain: ES/MRF(NA)-2022-08-00794 | Sweden: 5633 |
  Switzerland: CH-2013-0023
- **ÖNORM B 3802-2 or DIN 68800-3**
  The active substances used provide the protection required against blue stain (test conforming to EN 152-1) and wood-destroying fungi (test conforming to EN 113), as specified by ÖNORM B 3802-2 or DIN 68800-3, and also prevent insect infestation (test according to EN 46). Confirmed by an external test certificate.
  Active substances: B, P, W

  Active substance(s):
  8.0 g/kg (0.80 %) 3-Iod-2-propinylbutylcarbamat
  4.0 g/kg (0.40 %) Tebuconazol

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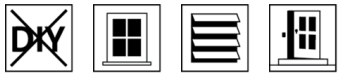
Our instructions are based on the current state of knowledge and are intended to advise the buyer/user to the best of our knowledge, but must be individually adapted to the areas of application and processing conditions. The buyer/user is responsible for deciding on the suitability and use of the supplied product, which is why we recommend that a sample be produced to check the suitability of the product. In all other respects, our General Terms and Conditions of Sale apply. All previous data sheets lose their validity with this edition. We reserve the right to make changes to container sizes, color shades and available gloss levels.

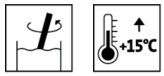
Application area



Dimensionally stable and limited dimensionally stable timber components in exterior and interior areas, such as wooden windows, front doors, shutters, gates, conservatories, etc. in use classes 2 and 3 without ground contact.

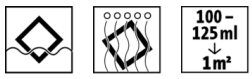
PROCESSING

Processing instructions



- Please stir the product before use. However, prevent entry of air while stirring.
- The temperature of the product and object, and the room temperature must be at least + 15 °C.
- The optimal conditions for use are between 15 - 25 °C with a relative atmospheric humidity between 40 - 80 %.
- The treated surfaces must be coated with a suitable topcoat to prevent the active substances from being washed out. This surface coating must be maintained continuously.
- In case of flow coating for a long time, the pH-value reduces and, as a result, there could be sagging problems. Hence, the pH value of impregnations that have already been used must be checked and, if required, corrected to the target pH-value of 9 – 9.5 by adding approx. 0.10 % of Neutralisationsmittel 9125 (96149) (the addition of 0.10 % will increase the pH-value up to approx. 0.6 units).
- If the viscosity increases as a result of evaporation, it must be compensated with water (set viscosity: 45 – 51 seconds in a 2 mm-measuring-cup) Before measuring the wood dust has to be screened.
- If foam forms in the flooding system, an addition of 0.2 - 0.3 % of Entschäumer-Lösung für Aquawood TIG (90642) or Entschäumer-Lösung (90643) is recommended.
- Any change in the processing sequence, environmental conditions, non-observance of instructions or the use of products not listed may have an unfavourable effect on the result. Deviations lead to film and adhesion problems as well as to impairments with regard to weathering and color stability.
- Please follow our **ARL 300 - Working guideline for coating dimensionally stable and limited dimensionally stable construction elements - General part** along with all standards and guidelines for window construction, **ARL 056 - Working guideline for the use of wood preservtives** and our **ARL 340 - Wood protection of dimensionally stable and limited dimensionally stable construction elements according to DIN 68800 part 1-3**.

Application technique



	Flow coating	Immersing	Spraytunnel
Application quantity per application (ml/m2)	100 - 125		

The product is ready to use.

The shape and surface condition of the workpiece as well as the type of application influence the actual consumption. Accurate values for consumption must be obtained by applying trial coats in advance.

Drying times

(at 23 °C and 50 % rel. humidity)

Re-coatable at room temperature	approx. 4 hour(s)
Re-coatable after forced drying 20 minutes draining 50 minutes drying stage (35 - 40 °C) 20 minutes cooling stage	approx. 90 minutes

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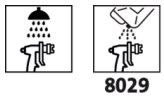
	The figures given above are reference values. The drying time depends on the type of substrate, coat thickness, temperature, air exchange and relative atmospheric humidity. Lower temperatures and/or high level of atmospheric humidity can increase the drying time. Avoid direct sunlight!
Cleaning the working equipment  8029	With water immediately after use. To remove dried paint residues we recommend using Aqua-Cleaner (8029) (diluted 1:1 with water).

SUBSTRATE

Type of substrate	Wood in accordance with the guidelines for window construction.
Substrate property	The substrate must be dry, clean, capable of holding the paint, free from separating substances such as grease, wax, silicone, resin etc. and free from wood dust, as well as tested for suitability for coating. A prerequisite for ensuring long durability of the coating is to observe the basic principles of constructional wood preservation.
Wood moisture	13 % ± 2 %
Substrate preparation	**Wood sanding:** **Hardwoods:** Grit size 150 - 180 **Softwoods:** Grit size 100 - 150

COATING SYSTEM

General	The following coating systems are exemplary. CrystalClear-Technology (CCT) coatings must be applied exclusively in accordance with **ARL 318 - Working guideline for the coating of dimensionally stable components CCT coatings.**
Impregnation	1 x Aquawood Primo A1 (5451)
Intermediate coat	**Softwoods:** 1 x Aquawood Intermedio DQ (5706) **Hardwoods and Larch:** 1 x Aquawood Intermedio ISO (5705) Intermediate drying: approx. 2 hour(s)
Intermediate sanding 	Slight smooth sanding: Grit size 240 – 280 Remove sanding dust.
Finishing coat	1 x Aquawood Finatop 40 (5140) or 1 x Aquawood Finapro 20 (5101) or

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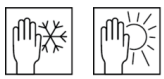
	1 x Aquawood Natureffekt (5127) or 1 x Aquawood Nativa (5195)
For front doors	To achieve optimal chemical and mechanical resistance, an additional application of Aquawood Protect (5128) (colourless two-component clear coating) is recommended, or alternatively the use of the Aquawood Protor or Aquawood Dura system. Deviations from this system recommendation may lead to reduced surface resistance.

ORDERING INFORMATION

Size of trading unit	4 l, 22 l, 120 l -Poly drum
Colour shades / Glosslevels	**Standard colour(s):** Basis W30 (5451000030) Basis W40 (5451000040) Farblos (5451000200) Softweiß H/A (5451000400) H/A (5451065979) The final colour is basically obtained from the inherent colour of the wood, the applied quantity, the colour of the impregnation and the colour of the finishing coat. In order to ensure uniformity of the colour shade, use only material with the same batch number on a given surface. It is recommended to prepare a trial colour sample on the original substrate using the coating system selected in order to assess the final colour shade.
Supplementary products	Aqua-Cleaner 8029 (8029) Aquawood Finapro 20 (5101) Aquawood Finatop 40 (5140) Aquawood Intermedio DQ (5706) Aquawood Intermedio ISO (5705) Aquawood Natureffekt (5127) Aquawood Nativa (5195) Aquawood Protect (5128) Neutralisationsmittel 9125 (96149) Entschäumer-Lösung für Aquawood TIG (90642) Entschäumer-Lösung (90643) Please refer to the corresponding technical data sheets of the products.

FURTHER DETAILS

Durability / storage 	Min. 1 year(s) in the original sealed containers. Make sure the product is protected against moisture, direct sunlight, frost and high temperatures (above 30 °C). Close opened containers well and use up the content as soon as possible.
Technical specifications	VOC content of the ready-to-use mixture: Limit value according to Directive 2004/42/EC for Aquawood Primo A1 (Cat A/f): 130 g/l. Aquawood Primo A1 contains a maximum of 80 g/l VOC.
Giscode	HSW27
DGNB (German Sustainable Building Council)	Quality level 3 (with factory coating)

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Safety information

The product is only suitable for the industrial and professional use.

When sanding, use at least a P2 dust filter as personal safety equipment to protect against abrasive and wood dust. In case of hardwood (especially for Beech, Oak) a dust filter P3 is recommended.

Use wood preservatives safely. Always read the label and observe the respective technical data sheets of the products before use.

Aquawood Primo A1 (5451) contains active biocidal substances to protect against blue stain and wood-destroying fungi. The product should therefore only be used when protection of the wood is prescribed or in specific cases when it is necessary.

3-Iodo-2-propynyl butylcarbamate (IPBC) is a carbamate compound that has a weak cholinesterase inhibitory effect. Do not use if medically advised not to work with cholinesterase inhibitors.

Suitable protective clothing (overalls, gloves, footwear) must be worn when using the products and handling freshly treated wood. Excessive soiling of the overalls must be avoided.

Unprotected persons and animals must be kept away from the treated surfaces for 48 hours or until the surfaces have dried.

Recently treated wood must be stored under cover or on a paved and impermeable surface or both in order to prevent dripping product residues and contaminated rainwater from escaping into the ground, the sewage system and water bodies. Dripping product residues and contaminated rainwater must be collected and disposed of properly or returned to the production plant.

The biocidal product may only be used on wood that is not used over or near surface water.

Do not allow the biocidal product or its diluted solution to enter the sewage system or the environment.

Must not be used for the treatment of rooms in which food or animal feed is obtained, produced, stored or sold.

Further information on the subject of safety during transport, storage and handling as well as disposal can be found in the relevant safety data sheet. The current version can be accessed on the Internet at **www.adler-lacke.com.**

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