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Technical data sheet

ADLER
Paint runs through our veins.

Aquawood TIG HighRes 5432

Water-based **wood preservative impregnation** for wooden windows and front doors for industrial and professional use
It has been matched as a system with a **3-coat structure** using Aquawood Intermedio or Aquawood Intermedio HighRes and Aquawood DSL Q10 M or Aquawood DSL HighRes.

PRODUCT DESCRIPTION

General

Water-based and ready-for-use wood preservative impregnation. Particularly good coverage of squared timber made of softwood. Very good sagging behaviour on hardwood and softwood.
The product contains effective UV absorbers for absorption of UV radiation and stabilising the wood constituent lignin.

Special properties and standards

- The active substance used provides the protection required in accordance with ÖNORM B 3803 or DIN 68800-3 against blue stain (Test conforming to EN 152-1) and wood-destroying fungi (Test conforming to EN 113). Coating quantity for testing in conformity with the standards is approx. 120 gm/m².

  Active Substances (B, P, W)
  0.8 % (0,8 g/100 g) Iodpropinylbutylcarbamat (IPBC)
  0.4 % (0,4 g/100 g) Tebuconazol

- Approval as a wood preservative (PT8) according to the Biocidal Products Directive of the EU.
- Certificate of appreciation (05/93) ARGE Holzschutzmittel (consortium wood preservatives), Association of the Austrian chemical industry.
- **CATAS** WKI Premium Award/Quality Award
  - EN 927-3 (natural weathering): S (EN 927-2)
  - EN 927-4 (water-vapour permeability): 30% ≤ MEE ≤ 70%
  - EN 927-5 (water permeability): < 175 g/m²
  - UV-light transmission:
    280 – 340 nm ≤ 1% - 280 – 440 nm ≤ 20%
  - EN ISO 4622 (stackability; 24 h drying, test at 23°C and 120 h drying, test at 50°C): no defects
  - ASTM D 3359 +PTP: ≥ 1 MPa
  - EN 12720 (resistance to water): 5
  - EN 927-6 (artificial weathering): no defects

2-coat structure (only for Award-tests): Aquawood TIG HighRes (colour shades dark brown, light brown, chestnut, pine, afzelia, hazelnut, melon) smooth sanding grain size 280, afterwards apply 1 coat of Aquawood DSL Q10 M colour shades F001, F002, F003, F004; F005, F006, F007, F008, F009, F010, F011, F012, F013, F014; F015, F016, F017, film thickness of DSL at least 250 µm (wet); corresponds at least 80 µm (dry).

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Our instructions for use are based on knowledge available currently and shall guide the purchaser / user to the best of one's knowledge, but, however, must be clarified for the areas of application and processing conditions on a case-to-case basis. The purchaser / user decides about the acceptance and use of the delivered product at his / her own risk, which is why we recommend that a sample piece be prepared to check the acceptability of the product. Our general terms and conditions of sale are otherwise applicable. All previous data sheets are rendered invalid with the issue of this one. Rights reserved for the modification of the container sizes, colour shades and degrees of gloss available.

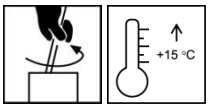
- **French ordinance DEVL1104875A** regarding the marking of construction coating products for their emission of volatile pollutants: A+

Application area

- Dimensionally stable and limited dimensionally stable timber components for exterior such as wooden windows, front doors, window shutters, balconies, gates, winter gardens, etc. in the usage class 2 and 3 without soil contact.

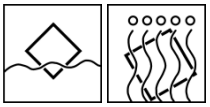
PROCESSING

Instructions for use



- Please stir the product before use.
- 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 product is not weather-resistant without a topcoat!
- Apply a suitable topcoat on the treated surfaces in order to avoid leaching of the active substances. An ongoing maintenance of this surface coating is necessary.
- 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 8,40 – 8,80 (adding 0,1% increases the pH value by about 0,6 units) by addition of 0,10 – 0,20 % of the neutralisation agent 96149.
- In case of an increase of viscosity in consequence of evaporation it will be necessary to adjust with water (nominal viscosity: 45 - 50 s in 2-mm-cup). Before measuring the wood dust has to be screened.
- On foam generation in the liquid agitation machine we recommend an addition of 0,1 – 0,3% Entschäumerlösung 90642.
- Please follow our "**Working guidelines for coating dimensionally stable and limited dimensionally stable construction elements"** along with the standards and guidelines for window construction and the "**Guidelines on the use of wood preservatives**".

Application technique



Application method	Immersion (or dipping)	Flow coating
Viscosity (sec.) 2-mm-cup, 20° C	45 - 50	
Yield per application (g/m^2)	100 - 120	

Attention: Do not spray the product!

If the product is sprayed under exceptional circumstances, please ensure that a breathing mask type A2/P3 is used.

The shape, the properties and moisture of the substrate affect the consumption / yield. Accurate values for consumption must be obtained by applying trial coats in advance.

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Drying times (at 23 °C and 50 % rel. humidity) 	<table><tr><td>Recoatable</td><td>after approx. 4 hours</td></tr><tr><td>Recoatable after forced drying: 20 min. dripping 50 min. drying stage (35 – 40°C) 20 min. cooling stage</td><td>after 90 min.</td></tr></table> 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. Avoid direct sunlight (very quick drying).
Cleaning the working equipment 	With water immediately after use. To remove dried paint residues we recommend using ADLER Aqua-Cleaner 80080 or ADLER Abbeizer Rote Krähe (Red Crow).
	SUBSTRATE
Type of substrate	Wood in accordance with the guidelines for window construction.
Substrate property (or condition)	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.
Wood moisture	Dimensionally stable components: 13 % +/- 2 %
	COATING SYSTEM
Primer coat	1x Aquawood TIG HighRes 5432
Intermediate coat	**Transparent:** Aquawood Intermedio 53663 or Aquawood Intermedio HF 53769 or Aquawood Intermedio ISO 53613 Intermediate drying time: 2 hours or Aquawood Intermedio HighRes MF 59119 or Aquawood Intermedio HighRes HF 59118 or Aquawood Intermedio HighRes ISO 59120 ff Intermediate drying time: 2 hours **The intermediate coating is not applicable for award tests (two coating structure).** **Opaque:** ADLER Acryl-Spritzfüller 41002 or ADLER Acryl-Spritzfüller SL 41029 Intermediate drying time: 4 hours or ADLER Acryl-Spritzfüller HighRes 41028 Intermediate drying time: 4 hours Please observe the relative technical data sheets of the products.

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Intermediate sanding	Grain size 220 – 240
Topcoat	**Transparent:** Aquawood DSL Q10 M 51751 ff or Aquawood DSL HighRes 59127 ff **Opaque:** ADLER Acryl-Spritzlack Q10 M 4320 Please observe the relative technical data sheets of the products.

ORDERING INFORMATION

Size of trading unit	4 l; 22 l; 120 l Poly drum
Colour shades / degree of gloss	Standard colour shades:

Dunkelbraun	543200401
Hellbraun	543200501
Kastanie	543200601
Kiefer	543200701
Afzelia	543200801
Haselnuss	543200901
Melone	543101001

Other colour shades can be obtained using the **ADLER colour blending system ADLERMix:**

Base paints:

Aquawood TIG HighRes W30	57628
Aquawood TIG HighRes W40	57629

- **The final colour shade is basically obtained from the inherent colour of the wood, the applied quantity, the colour shade of the impregnation and the intermediate coat, and the colour shade of the finishing coat applied** (compare with the colour shade chart).
- 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.
- In order to lay particular emphasis on the wood structure, the selected colour shade of Aquawood TIG should be darker than the one of Aquawood DSL.
- For a good weather resistance exclusively pigmented colour shades can be used.

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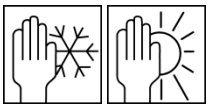
Supplementary products

Aquawood Intermedio 53663
Aquawood Intermedio HF 53769
Aquawood Intermedio HighRes MF 59119
Aquawood Intermedio HighRes HF 59118
Aquawood Intermedio HighRes ISO 59120 ff
Aquawood DSL Q10 M 51751 ff
Aquawood DSL HighRes 59127 ff
ADLER Aqua-Cleaner 80080
ADLER Abbeizer Rote Krähe 95125
ADLER Acryl-Spritzlack Q10 M 4320
ADLER Acryl-Spritzfüller 41002
ADLER Acryl-Spritzfüller SL 41029
ADLER Acryl-Spritzfüller HighRes 41028
ADLER Neutralisationsmittel (Neutralisation agent) 96149
ADLER Entschäumerlösung (De-foaming agent) 90642

FURTHER DETAILS

Durability / storage



At least 1 year in the original sealed containers.

Make sure the product is protected against moisture, direct sunlight, frost and high temperatures (above 30 °C).

Technical specifications

Delivery viscosity	Approx.11 sec. according to DIN 53211 (4-mm-cup, 20°C) or approx. 45 - 50 sec. (2-mm-cup)
VOC content	EU limit value for Aquawood TIG HighRes (Cat. A/f): 130 gm/l (2010). Aquawood TIG HighRes contains maximum 60 g/l VOC (Volatile Organic Compounds).

Safety-related information

Please pay attention to the associated safety data sheet. The current version can be accessed on the Internet at **www.adler-lacke.com**.

The product is only suitable for industrial and commercial processing.

Aquawood TIG HigRes contains biocidal active substances to provide protection against blue stain and wood-destroying fungi. Hence, it must be used only when protection of the wood is prescribed or in specific cases when it is necessary. Do not use large scale in interior rooms and in no case in living rooms and bedrooms, do not apply in rooms which are used to gain, produce, store or sell food and feed. Not for wood which is used for building bee houses or sauna systems and not for wood which is in continuous contact with ground and/or water.
Danger for bats. Treated wood is not to be used within spitting distance to waters.

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