

Aquawood TIG HighRes U

57631 ff

Water-based **wood preservative impregnation** for wooden windows and doors for industrial and professional use.

It has been matched as a system with a **3-coat structure** using Aquawood DSL HighRes and Aquawood Intermedio HighRes.

PRODUCT DESCRIPTION

General

Water-based wood preservative impregnation with particularly luminescent appearance of stains on porous types of hardwood.

It contains effective UV absorbers for absorption of the UV radiation and stabilising the wood constituent lignin.

The product contains special marking agents based on nano technology; as a result, correct application can be verified subsequently.

Special Properties Testing Standards

- The active substances used provide the protection required against blueing (Test conforming to EN 152-1) and fungus that destroys wood (Test conforming to EN 113), as specified by ÖNORM B 3803 or DIN 68800-3. Coating quantity for testing in conformity with the standards is approx. 200 gm/m² (Approval certificate no. 5/93).

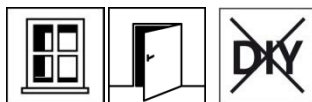
- Active Substances (B, P)**

0,8 g/100 g Iodpropinylbutylcarbamate (IPBC)
0,0012 % Permethrin

- French Ordinance DEVL1104875A** regarding the labeling of construction coating products with respect to their emission of volatile pollutants: A+



Areas of application



- Dimensionally stable wooden components such as wooden windows and front doors or garage gates made of hardwood.

PROCESSING

Instructions for application



- Please stir the product before use.
- The temperature of the product, object and the room temperature must be at least +15 °C.
- Optimal temperature while dip-coating or flow-coating is between 15 - 25°C with a relative atmospheric humidity between 40 - 80%.

09-12 (supersedes 08-12) ZKL 5412

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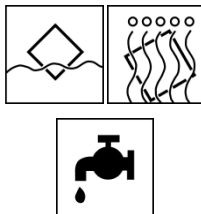
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Our instructions for use are based on knowledge available currently and shall guide the purchaser / user to the best of one's knowledge, but, however, must be clarified for the areas of application and processing conditions on a case-to-case basis. 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 modification of the container sizes, colour shades and degree of gloss.

- The product is not weather-resistant without a topcoat!
- 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 8,00 – 9,00 by adding 0,10 – 0,20 % of the neutralisation agent 96149 (the addition of 0,1% will increase the pH-value up to approx. 0,6 units).
- Optimal sagging results are obtained on oak and chestnut with still higher pH values from 9.3 to 9.5, which corresponds to an addition of 0.25 – 0.35 % 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 - 52 s in 2mm- cup). Before measuring the wood dust has to be screened.
- Thin it with up to 20 % water for better spread, above all, when using dark colour shades or under unfavourable conditions (increased temperatures or low atmospheric humidity). Compensate evaporation losses by adding water.
- On foam generation in the liquid agitation machine we recommend an addition of 0,1 – 0,3% Entschäumerlösung 90642.
- Please follow our **"Working guideline for coating dimensionally stable and limited dimensionally stable construction elements"** along with all standards and guidelines for window construction and the **"Working guidelines for wood preservatives"**.

Application technique



| Application method | Immersion (or dipping) | Flow-coating |
|--|------------------------|--------------|
| Dilution (thinning) | Water | |
| Thinner amount added in % | up to 20% | |
| Yield per application (gm/m ²) ¹⁾ | 100 - 120 | |
| ¹⁾ Yield including addition of thinner | | |

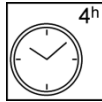
Attention: Do not spray the product!

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

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

Drying times

(at 23 °C and 50 % rel. humidity)



| | |
|--|-----------------------|
| Recoatable at room temperature: | After approx. 4 hours |
| Recoatable after forced drying: 20 min dripping 50 min drying stage (35– 40°C) 20 min cooling stage | After 90 min |

The figures indicated serve as a guide and are for reference. The drying time depends on the type of wood, coat thickness, temperature, air exchange and relative atmospheric humidity. Avoid direct sunlight (very quick drying).

Cleaning the tools and equipment



Clean with water immediately after use.

Remove flashed-off coat residues using ADLER Aqua-Cleaner 80080 or ADLER Abbeizer 95125.

SUBSTRATE

| | |
|-----------------------------------|--|
| Type of substrate | Wood in accordance with the guidelines for window construction |
| Substrate property (or condition) | The substrate must be dry, clean, and capable of holding the paint, and it must be free of grease and wax and free from wood dust. |
| Wood moisture | Stable structures: 13 % +/- 2 % |

COATING SYSTEM

| | |
|-------------|--|
| Primer coat | 1 x Aquawood TIG HighRes U farbig (coloured) 57632 ff 1 x Aquawood TIG HighRes U Farblos (colourless) 57631 only for brightening up dark colour shades! |
|-------------|--|

Intermediate coat

Glaze and opaque:

Aquawood Intermedio HighRes MF Tauchfertig (ready for immersion) 59119,

or

Aquawood Intermedio HighRes HF 59118

or

Aquawood Intermedio HighRes Spritzfertig (ready to spray) 59120

ADLER Acryl-Fensterfüller HighRes Weiß (White) 41024

Please follow the respective technical data sheets of the products.

Intermediate sanding



Sanding grain size 220 – 240

Topcoat

Glaze:

Aquawood DSL HighRes 59127 ff

Opaque:

ADLER Acryl-Spritzlack Q10 M 4320 ff

Please follow the respective technical data sheets of the products.

PRESERVATION & RENOVATION

Preservation

The storage stability depends on several factors. These include particularly the type of weathering, constructive protection, mechanical stress and the choice of colour shades applied.

Preservation work must be carried out in time for a long period of storage stability. Annual maintenance is recommended for this purpose.

Windows: Cleaning with ADLER Top Cleaner 51696 and preservation using ADLER Top Finish 51697 in the ADLER Pflegeset-Plus preservative kit 51695.

Front doors: Cleaning with ADLER Door-Cleaner 51699 and preservation using ADLER Door-Finish 51700 in the ADLER Haustürenpflegeset front door preservative kit.

Please observe the relative technical data sheets of the products.

Refurbishing

Refurbishing with Pullex Aqua-DSL 51501 ff or, in case of greyed wood, with Pullex Renovier-Grund 50236 ff and Pullex Fenster-Lasur 50413 or Pullex Color 50530 ff

Please observe the relative technical data sheets of the products.

NOTES ON ORDERING

Container sizes

5 l, 25 l

Colour shades / Degree of gloss

Standard colour shades:

| | |
|---|-------|
| Farblos (colourless, only for brightening up the darker colour shades, up to max. 1 to 1) | 57631 |
| Dark brown | 57632 |
| Brown | 57633 |
| Medium oak U / Rovere Medio | 57634 |
| Chestnut | 57635 |
| Medium brown | 57637 |
| May green | 57645 |
| Ebano | 57638 |
| Oak | 57639 |
| Pine | 57640 |
| Larch | 57641 |
| Rosewood | 57642 |
| Ciliego | 57643 |
| Pino Scuro | 57646 |
| Noce Caldo | 57647 |
| Mogano | 57648 |
| Wenge | 57649 |

- All colour shades can be blended with one another.
- **The final colour shade is basically obtained from the inherent colour of the wood, the colour shade of the impregnation and the colour shade of the glaze finish topcoat applied** (compare with the colour shade chart).
- In the case of impregnations of the same colour shade designation, there is a slight difference in the colour shade between Aquawood TIG HighRes U and the other impregnations Aquawood TIG HighRes FJ, Aquawood TIG E, Aquawood TIG U or E 01 (formerly Corá) on account of the formulation.
- The preparation of a trial colour sample on the original substrate

using the coating system selected in order to assess the final colour shade is recommended.

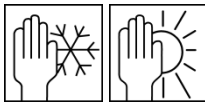
- In order to lay particular emphasis on the wood structure, the colour shade of Aquawood TIG selected should be darker than that in the case of Aquawood DSL HighRes.

By-products

Aquawood Intermedio HighRes MF Tauchfertig 59119
 Aquawood Intermedio HighRes HF Tauchfertig 59118
 Aquawood Intermedio HighRes SQ 59120 ff
 Aquawood DSL HighRes 59127 ff
 ADLER Acryl-Spritzlack Q10 M 4320 ff
 ADLER Acryl-Fensterfüller HighRes Weiß 41024
 ADLER Aqua-Cleaner 80080
 ADLER Abbeizer Rote Krähe 95125
 ADLER Top-Cleaner 51696
 ADLER Top-Finish 51697
 ADLER Pflegeset-Plus 51695
 ADLER Door-Cleaner 51699
 ADLER Door-Finish 51700
 ADLER Haustürenpflegeset 51709
 Pullex Color 50530 ff
 Pullex Aqua-DSL 51501 ff
 Pullex Fenster-Lasur 50413
 Pullex Renovier-Grund 50236 ff
 ADLER Neutralisationsmittel 96149
 ADLER Entschäumerlösung 90642

OTHER INSTRUCTIONS

Storage stability / Storage



At least 1 year in the original sealed containers.

Store it such that it is protected against moisture, direct sunlight, frost and high temperatures (above 30°C).

Technical Specifications

| | |
|--------------------|---|
| Delivery viscosity | 12 sec. in accordance with DIN 53211 (4 mm cup, 20°C) or 45 – 52 sec. (2 mm cup) |
| VOC content | EU limit value for Aquawood TIG HighRes U (Cat. A/e): 130 gm./l (2010). Aquawood TIG HighRes U contains maximum 60 gm/l VOC (Volatile Organic Compounds). |

Safety-relevant information



Please take note of the guidelines for the use of wood preservatives and respect the associated safety data sheet! The latest version can be retrieved from the Internet at www.adler-lacke.com.

Aquawood TIG HighRes U contains biocide substances to provide protection against blueing and fungal decay. Hence, it must be used only when protection of the wood is prescribed or in specific cases when it is necessary.