

ARL 308 – Working guideline for coating dimensionally stable construction elements

Windows & front doors

Coating system Advanced

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1 Basics

This objective working guideline describes the wood species and coating systems covered by the Advanced guarantee and must be observed in addition to the corresponding guarantee folder. Construction and indications for processing as well as general information such as wood quality can be found in the **ARL 300 - Working guideline for coating dimensionally stable and limited dimensionally stable construction elements - General part**.

All ADLER products must be processed in accordance with the technical data sheets and the General Terms and Conditions of ADLER-Werk Lackfabrik Johann Berghofer GmbH & Co KG must be observed. All relevant standards or guidelines for construction and storage must also be taken into account for windows. Compliance with the construction monitoring obligation as well as the proper assembly of wooden windows and doors according to the state of the art and measures intended for protection during the construction phase must be ensured.

2 Guarantee coating systems

The listed coating systems are valid in combination with the wood species Spruce, Fir, Larch, Pine, Oregon, Hemlock, Oak, Meranti, Mahogany, Teak and Accoya (modified wood).

V-joints must be treated with ADLER V-Fugensiegel (55630 f). For front doors, a final treatment with Aquawood Protect 53215 in 2-component application (for higher mechanical and chemical resistance) or the use of the Protor coating system for front doors (see **ARL 305 - Working guideline for coating dimensionally stable and limited dimensionally stable**

construction elements – Coating front doors and garage doors with Aquawood Protor)
is required.

2.1 For Spruce, Fir, Oregon, Hemlock, Accoya and Meranti

| TRANSPARENT | | Application |
|--|--|---------------------------|
| Graduated sanding up to at least grit size 120 | | |
| 1. Impregnation | 1x Aquawood Primo A3 5453 – A6 5456 | Immersion or flow-coating |
| Light smooth sanding, if necessary | | |
| 2. Intermediate coat | 1 x Aquawood Intermedio FlowQ 5721 or 1 x Aquawood Intermedio DQ 5706 or 1 x Aquawood Intermedio ISO 5705 | Immersion or flow-coating |
| | | Spraying |
| Intermediate sanding with grit size 220 - 240 | | |
| 3. Finishing coat | 1x Aquawood Finapro 20 5101 or 1x Aquawood Finapro 40 5135 or 1x Aquawood Finapro 60 5176 | Spraying |

| OPAQUE | | Application |
|--|---|---------------------------|
| Graduated sanding up to at least grit size 120 | | |
| 1. Impregnation | 1x Aquawood Primo A2 5452 | Immersion or flow-coating |
| Light smooth sanding, if necessary | | |
| 2. Intermediate coat | 1 x Aquawood Intercare FlowQ* 5521 or 1 x Aquawood Intermedio DQ 5706 or 1 x Aquawood Intermedio FlowQ 5721 or 1 x Aquawood Intercare SQ 5522 or 1 x ADLER Acryl-Fensterfüller HighRes 5501 or 1x Aquawood Intercare ISO 5503 | Immersion or flow-coating |
| | | Spraying |
| Intermediate sanding with grit size 220 - 240 | | |
| 3. Finishing coat | 1x Aquawood Finapro 20 5101 or 1x Aquawood Finapro 40 5135 or 1x Aquawood Finapro 60 5176 | Spraying |

Please observe the relative technical data sheets of the products.

*Especially for Meranti

2.2 For oak, pine, mahogany, teak and larch

| TRANSPARENT | | Application |
|--|--|---------------------------|
| Graduated sanding up to at least grit size 150 | | |
| 1. Impregnation | 1x Aquawood Primo A3 5453 – A6 5456 | Immersion or flow-coating |
| Light smooth sanding, if necessary | | |
| 2. Intermediate coat | 1 x Aquawood Intermedio ISO 5705 or 1 x Aquawood Intermedio SQ** 5718 | Spraying |
| Intermediate sanding with grit size 220 - 240 | | |
| 3. Finishing coat | 1x Aquawood Finapro 20 5101 or 1x Aquawood Finapro 40 5135 or 1x Aquawood Finapro 60 5176 | Spraying |

| OPAQUE | | Application |
|--|---|---------------------------|
| Graduated sanding up to at least grit size 150 | | |
| 1. Impregnation | 1 x Aquawood Primo A2 5452 | Immersion or flow-coating |
| Light smooth sanding, if necessary | | |
| 2. Intermediate coat | 1 x Aquawood Intercare SQ 5522 or 1 x ADLER Acryl-Fensterfüller HighRes 5501 or 1 x ADLER Acryl-Spritzfüller 41002 | Spraying |
| Intermediate sanding with grit size 220 - 240 | | |
| 3. Finishing coat | 1x Aquawood Finapro 20 5101 or 1x Aquawood Finapro 40 5135 or 1x Aquawood Finapro 60 5176 | Spraying |

Please observe the relative technical data sheets of the products.

****Especially for Larch**

2.3 4-layer coating system:

Alternatively, the coating systems can also be applied in 4 layers. The transparent version with Aquawood Primo TIM in combination with Aquawood Interprimer or opaque with Aquawood Primo TIM and Aquawood Primo A2 Weiß, otherwise analogous to the 3-layer coating system.

3 Colour shades

Colour shade changes of transparent coating systems on wood during weathering are fundamentally unavoidable, but should not be disturbing (assessment analogous to VFF Merkblatt HO.05: 2009-05). For softwoods, only medium and dark impregnation colours from oak medium and for hardwoods from chestnut or darker should be used. The lightest colour shade to be used for the finishing coat is F015.

Colour tone combinations can be taken from the current ADLER window colour charts.

For the opaque colour shades there are no restrictions for RAL and NCS colour shades. Effect and metallic colour shades are generally excluded from the guarantees. The use of an antiheat pigmentation leads to a significantly reduced temperature on the surface in direct sunlight (depending on the colour shade approx. 10 °C – 20 °C). This leads to an increased durability (reduced thermomechanical stress) and significantly lower resin flow in woods rich in resins such as pine or larch. Colour shades with anti-heat finish are available from the factory.

4 Maintenance

Annual cleaning with ADLER Top-Cleaner 51696 and maintenance with ADLER Top-Care 7227000210 (in the kit ADLER Windoor Care-Set 7229) is required.