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Technical data sheet

ADLER
Paint runs through our veins.

ADLER Acryl-Fensterlack M 43670 ff

Water-based pigmented **topcoat** for **wooden windows and front doors** for **industrial and professional use**
It has been matched as a system with a **3-coat structure** with **Aquawood TIG High Res Weiß** and **Aquawood Intermedio or ADLER Acryl-Spritzfüller**

PRODUCT DESCRIPTION

General

Water-based, pigmented topcoat. Good weather resistance, good permanent elasticity. High level of block resistance, very good impact strength, fast resistance to water and short drying times. Good mechanical resistance. Good firmness on vertical surfaces combined with optimal flow. Particularly low number of micro-bubbles with airless spray application as a result of highly active de-foaming and de-aerating agents.

Special properties and standards

- **ÖNORM S 1555** or **DIN 53160** perspiration and saliva-proof properties
- **ÖNORM EN 71-3** Safety of toys; migration of certain elements (free of heavy metals)
- **French ordinance DEVL1104875A** regarding the marking of construction coating products for their emission of volatile pollutants: A+

Application areas

- For dimensionally stable timber components in the outdoor area such as wooden windows and front doors in the usage classes 2 and 3 without ground contact
- For humid areas (e.g. indoor pools) only with a special structure.
- For front doors, additionally with the colourless topcoat Aquawood Protect 53215.
- For non-dimensionally stable timber components we recommend Pullex Plus-Lasur 50530 or Pullex Aqua-Plus 53331.
- Please observe the relative technical data sheets of the products.

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08-16 (supersedes 01-16) ZKL 5001

ADLER-Werk Lackfabrik, A-6130 Schwaz
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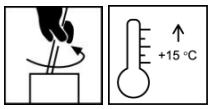
Our instructions for use are based on knowledge available currently and shall guide the purchaser / user to the best of one's knowledge, but, however, must be clarified for the areas of application and processing conditions on a case-to-case basis. The buyer/user takes responsibility for the suitability and use of the delivered product. It is therefore recommended to produce a sample specimen for testing the suitability 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.

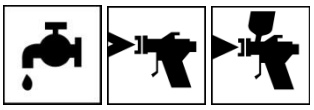
PROCESSING

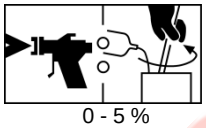
Instructions for use



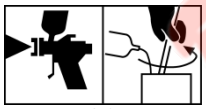
- Please stir the product before use. However, prevent entry of air while stirring.
- The temperature of the product and object, and the room temperature must be at least + 15 C.
- The optimal conditions for use are between 15 – 25 °C with a relative atmospheric humidity between 40 – 80 %.
- Too high dry film thicknesses beyond around 120 µm reduce the diffusion capacity and should thus be avoided.
- Sealants must be compatible with the coat and may only be applied once the paint has dried through. Weather strips containing plasticizers tend to adhere in combination with paints. Please only use those types that have been tested.
- When changing from ADLER Acryl-Fensterlack M to other water-based paint systems, care must be taken to adequately clean the pipes and spray equipment, preferably with warm water.
- 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 our **"Guidelines on the use of wood preservatives"**.

Application technique





0 - 5 %



10 %

Application method	Airless	Airless air-supported (Airmix, Aircoat, etc.)	Cup gun
Spraying nozzle (ø mm)	0.28 or 0.33	0.28 or 0.33	1.8 – 2.0
Spraying nozzle (ø inch)	0.011 or 0.013	0.011 or 0.013	-
Spraying angel (degrees)	20 – 40	20 – 40	-
Spraying pressure (bar)	80 – 100	80 – 100	3 - 4
Atomising air (bar)	-	0,5 – 1,5	-
Spraying distance (cm)	approx. 25		
Dilution (thinning)	water		
Thinner amount added in %	0 – 5	0 – 5	10
Application quantity (g/m²)	250 – 300 (softwood with low resin content and hardwood) 150 – 200 (highly resinous softwood and hardwood with staining substances)		
Yield per application (g/m)[2)1)]	600 or 300		
Yield per application (g/m)[1)]	300 – 360 or 150 – 180		
Wet film (µm)	250 – 300 (softwood with low resin content and hardwood) 150 – 200 (highly resinous softwood and		

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	hardwood with staining substances)
Dry film (µm)	100 to max. 120
[1)] Yield including addition of thinner and loss while spraying	

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.

Drying times
(at 23 °C and 50 % rel. humidity)

Dust-dry (ISO 1517)	after approx. 1 hour
Tack-free	after approx. 3 hours
Stackable with PE fine foam spacersat room temperature:	after approx. 5 hours
Stackable with PE fine foam spacers after forced drying: 20 min. flash-off zone 90 min drying phase (35 – 40°C) 20 min. cooling phase	after approx. 130 min.
Recoatable	after approx. 12 hours

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 95125.

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

1 x Aquawood TIG HighRes Weiß 543700101
Intermediate drying: approx. 4 hours

Please observe the relative technical data sheets of the products.

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Intermediate coat	**Low resin softwood and hardwood:** 1 x Aquawood Intermedio 53663 by flow coating Intermediate drying: approx. 2 hours The coating of wood aluminium windows is often done without an intermediate coat. **Highly resinous softwood and hardwood with staining substances:** 1 x ADLER Acryl-Spritzfüller 41002 Wet-film thickness 150 - 200 µm Intermediate drying: approx. 4 hours Please observe the relative technical data sheets of the products.
Intermediate sanding 	Grit size 220 – 280 Remove sanding dust.
Topcoat	1 x ADLER Acryl-Fensterlack M 43670 ff undiluted
Final coat	For front doors we recommend an additionally coat with the colourless topcoat Aquawood Protect 53215. Please observe the relative technical data sheets of the products.

MAINTENANCE AND RENOVATION

Maintenance	The durability depends on several factors. These include particularly the type of weathering, constructional protection, mechanical stress and the choice of colour applied. To obtain long durability, preservation work is necessary in time. Therefore we recommend annual maintenance. **Windows**: Cleaning with ADLER Top-Cleaner 51696 is sufficient (for severe dirt). Maintenance with ADLER Top-Finish should not be carried out due to the risk of streaking. **Front doors**: Cleaning with ADLER Top-Cleaner 51696. Preservation using ADLER Door-Finish 51700 in the ADLER Haustürenpflegeset (front door preservative kit) 51709. Please observe the relative technical data sheets of the products. Please follow our **"Working guideline for coating dimensionally stable and limited dimensionally stable construction elements - Maintenance and renovation"**.

ORDERING INFORMATION

Size of trading unit	25 kg, 120-kg-poly drum
Color shades/degree of gloss	RAL 9010 43671 RAL 9016 43670 RAL 6005 43672 RAL 6009 43673
ADLER MIX	Other colour shades can be obtained using the **ADLER colour mixing system ADLERMix**. **Base paints:** Base W10 43681 Base W30 43680

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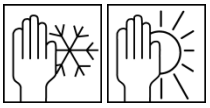
- It is recommended to prepare a trial colour sample on the original substrate using the coating system selected in order to assess the final colour shade.
- In order to ensure uniformity of the colour shade, use only material having the same batch number on a given surface.

Supplementary products

Aquawood TIG HighRes Weiß 543700101
Aquawood Intermedio 53663
Aquawood Protect 53215
ADLER Acryl-Spritzfüller 41002
ADLER Abbeizer Rote Krähe 95125
ADLER Aqua-Cleaner 80080
ADLER Top-Cleaner 51696
ADLER Door-Finish 51700
ADLER Haustürenpflegeset 51709

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

VOC content — EU threshold for ADLER Acryl-Fensterlack M (Cat. A/d): 130 g/l (2010). ADLER Acryl-Fensterlack M contains maximum 40 gm./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 professional use.

Inhaling paint aerosols whilst spraying must generally be avoided; this is ensured by correctly using a respiratory mask (combination filter A2/P2 – EN 141/EN 143).

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