Technical data sheet

ADLER
Paint runs through our veins.

Aquawood Dura-Finish D 5825

Pigmented 1C paint system for **exterior doors**, for use in industry and trade
Optimised for use with Aquawood Dura Base D

PRODUCT DESCRIPTION

General

Water-based, matt, opaque pigmented 1C paint system with very good resistance to weathering and UV radiation.
Stand-out features of this product include very good scratch resistance, very good protection against water, very good block resistance, good chemical resistance and very good permanent elasticity, combined with good hardness and short drying times.

Special properties and standards

- **Proof of suitability according to DIN EN 927-2**
  Confirmed by an external test certificate.
- **ÖNORM EN 71-3**
  Confirmed by an external test certificate.
  Safety of toys; migration of certain elements (free of heavy metals).
- **DIN 53160-1 and DIN 53160-2**
  Perspiration and saliva-proof properties
- **French ordinance DEVL1104875A**
  Marking of construction coating products for their emission of volatile pollutants: A+

Application area

Exterior doors, balcony doors, lift and slide elements and garage doors in outdoor and indoor areas.

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 %.

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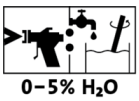
- Too high dry film thicknesses from approx. 120 µm reduce the diffusion capacity and should thus be avoided.
- Sealants must be compatible with the coat and may only be applied once the paint has dried through. Sealing profiles with plasticizers tend to stick together in combination with paints. Please only use those types that have been tested.
- When changing from Aquawood Dura-Finish D (5825) to other water-based paint systems, care must be taken to adequately clean the pipes and spray equipment, preferably with warm water.
- Finely structured surfaces can be achieved by adding Aquafix S (8110). At the same time, the high mechanical resistance is further increased. Quantity to be added up to a maximum of 4 %.
- 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 305 - Working guideline for coating dimensionally stable and limited dimensionally stable construction elements - Coating of front doors and garage doors**.

Application technique



	Airless	Airless air-supported (Airmix®, Aircoat, etc.)
Spraying nozzle Ø (mm)	0,28 - 0,33	
Spray nozzle (Ø inch)	0,011 - 0,013	
Nozzle angle (°)	20 - 40	
Spraying pressure (bar)	80 - 100	
Vaporizer Air (bar)	-	0,5 - 1,5
Spraying distance (cm)	25	
Diluent	Water	
Diluent amount added (%)	0 - 5	
Applied quantity per application (g/m²)	225 - 275	
Wet film (µm)	200 - 250	
Dry film complete coating system (µm)	100 - 120	

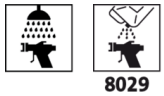
The shape and surface condition of the workpiece as well as the type of application influence the actual consumption. Accurate values for consumption must be obtained by applying trial coats in advance.

Drying times

(at 23 °C and 50 % rel. humidity)

Dust-dry (ISO 1517)	approx. 1 h
Tack-free	approx. 3 hour(s)
Stackable with PE fine foam spacers at room temperature	approx. 5 hour(s)
Stackable with PE fine foam spacers after forced drying 20 minutes Evaporation/dripping zone 90 minutes drying stage (35 - 40 °C) 20 minutes cooling stage	approx. 130 minutes

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. / MDF panels (approved for outdoor use)
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. **MDF panels:** Please use only moisture-resistant MDF panels of type 100 or qualities recommended by the manufacturer for outdoor use.
Wood moisture	13 % ± 2 %
Substrate preparation	Front doors in MDF quality: Sanding Grit size 180 – 220

COATING SYSTEM

Impregnation	**Hardwoods and softwoods:** 1 x Aquawood Primo A2 (5452) Intermediate drying time: approx. 4 hours Use wood preservatives safely. Always read the label and observe the respective technical data sheets of the products before use. Please follow our **ARL 056 - Working guideline for the use of wood preservatives.**
Primer coat	**Only required for MDF** **(deep primer application / water protection / adhesion promoter):** Additional priming with the solvent-based product 2K-Epoxy-Grund (5604) is required: Pre-coat milled surfaces and edges without thinning, dry for at least 4 hours. Smooth sanding grit size 240. Spray generously over the entire surface. Dilution for spraying is about 25-30 % of Epoxy-Spritzverdünner 8011 (8011). Intermediate drying time: approx. 12 hours (over night)
Intermediate coat	**MDF / Softwoods:** 1 x Aquawood Dura-Base D (5821) **Hardwoods and Larch:** 1 – 2 x Aquawood Dura-Base D (5821) Intermediate drying time: approx. 4 hours
Intermediate sanding 	Slight smooth sanding: Grit size 220 – 280 Remove sanding dust.

Finishing coat	1 x Aquawood Dura-Finish D (5825)

MAINTENANCE

Care	The durability depends on several factors: these include particularly the type of weathering, constructive protection, mechanical stress and the choice of colour applied. To obtain long durability, regular inspection, maintenance and, if necessary, repair measures are necessary. Annual cleaning with Top-Cleaner (7208) and maintenance with Top-Care (7227) in the package with Windoor Care-Set (7229). Touching up minor flaws with the original material.
Maintenance	Please follow our **ARL 304 - Working guideline for coating dimensionally stable and limited dimensionally stable construction elements - Maintenance and repair.**

ORDERING INFORMATION

Size of trading unit	5 kg, 20 kg
Colour shades / Glosslevels	Colour shades can be obtained using the **ADLER colour mixing system ADLERMix**. **Base paint(s):** Aquawood Dura-Finish D W10 Weiß, tönbar (5825000010) Aquawood Dura-Finish D Basis W30 (5825000030) 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. Please observe our **ARL 800- Working guideline for working (including care and maintenance) with ADLER Mix, PUR Mix and Color4You dosing machines.**
Supplementary products	2K-Epoxy-Grund (5604) Aqua-Cleaner 8029 (8029) Aquafix S (8110) Aquawood Dura-Base D (5821) Aquawood Primo A2 (5452) Epoxy-Spritzverdünner 8011 (8011) Top-Care (7227) Top-Cleaner (7208) Windoor Care-Set (7229) 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 Dura-Finish D (Cat A/d): 130 g/l. Aquawood Dura-Finish D contains a maximum of 70 g/l VOC.
Giscode	BSW30

DGNB (German Sustainable Building Council)	Quality level 4 (with factory coating)
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. The inhalation of paint aerosols during spray application must generally be avoided. This is ensured by the proper use of a respirator (combination filter A2/P2). 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.**