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Technical data sheet

ADLER
Paint runs through our veins.

Aquawood Protect 5128

Colourless 2C protective varnish for **exterior doors**, for use in industry and trade

PRODUCT DESCRIPTION

General

Water-based, colourless and non-yellowing 2C varnish system with outstanding resistance to weathering and UV radiation, available in various degrees of gloss.
Stand-out features of this product include very good scratch resistance, very good block resistance and chemical resistance and very good permanent elasticity, combined with good hardness and short drying times.

Special properties and standards

- **ÖNORM EN 71-3**
  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 %.
- Do not close containers with hardened material.
- 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.

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Our instructions are based on the current state of knowledge and are intended to advise the buyer/user to the best of our knowledge, but must be individually adapted to the areas of application and processing conditions. The buyer/user is responsible for deciding on the suitability and use of the supplied product, which is why we recommend that a sample be produced to check the suitability of the product. In all other respects, our General Terms and Conditions of Sale apply. All previous data sheets lose their validity with this edition. We reserve the right to make changes to container sizes, color shades and available gloss levels.

- When changing from Aquawood Protect (5128) 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. Add up to max. 8 %.
- 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**.

Blending ratio

100 Part(s) by weight Aquawood Protect (5128)
7 Part(s) by weight Aqua-Hardener 8450 (8450000210)

Aquawood Protect (5128) can only be used with a hardener and in the mixing ratio specified. Deviations lead to film and adhesion problems.

Aqua-Hardener 8450 (8450000210) must be carefully worked into the product by stirring before processing.

After addition of hardener, a waiting time of approx. 10 minutes is recommended for improved degassing.

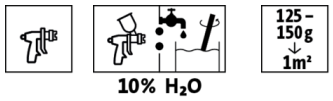
Pot life

2 hour(s)

A further extension of the pot life is not possible.

Increased temperatures reduce the pot life.

Application technique



	Airless	Airless air-supported (Airmix®, Aircoat, etc.)	Cup gun
Applying device	-		Druckbecherpistole
Spraying nozzle Ø (mm)	0,28		1,8
Spray nozzle (Ø inch)	0,011		-
Spraying pressure (bar)	80 - 100		3 - 4
Vaporizer Air (bar)	-	1 - 2	-
Diluent	Water		
Diluent amount added (%)	-		10
Applied quantity per application (g/m²)	125 - 150		
Wet film (µm)	125 - 150		

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

Dust-dry (ISO 1517)	approx. 30 minute
Tack-free	approx. 3 hour(s)

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(at 23 °C and 50 % rel. humidity)

Dried through	approx. 12 hour(s)

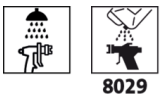
If necessary, a forced drying is also possible.

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



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

Hardwoods and softwoods

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.

Wood moisture

13 % ± 2 %

COATING SYSTEM

General

The following coating systems are exemplary.

Impregnation

Opaque:

1 x Aquawood Primo A2 (5452)

Transparent:

1 x Aquawood Primo (5453)

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.**

Intermediate coat

Opaque:

1 x Aquawood Intercare ISO (5503)

or

1 x Aquawood Intercare SQ (5522)

or

1 x Aquawood Intercare ES (5501)

Intermediate drying time: approx. 4 hours

Transparent:

Softwoods:

1 x Aquawood Intermedio DQ (5706)

Hardwoods and Larch:

1 x Aquawood Intermedio ISO (5705)

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	Intermediate drying: approx. 2 hour(s)
Intermediate sanding	Grit size 220 – 280 Remove sanding dust.
Finishing coat	**Opaque:** 1 x Aquawood Covatop XT 20 (5020) or 1 x Aquawood Covapro 20 (5023) **Transparent:** 1 x Aquawood Finatop 40 (5140) or 1 x Aquawood Finapro 20 (5101) Intermediate drying: approx. 16 hours
For front doors	1 x Aquawood Protect (5128)

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	4 kg, 22 kg
Colour shades / Glosslevels	Aquawood Protect G20 (5128000120) Aquawood Protect G30 (5128000130) Aquawood Protect G40 (5128000140) Aquawood Protect G90 (5128000190) Further gloss levels, between G20 and G90, can be achieved by mixing the existing gloss level.
Supplementary products	Aqua-Cleaner 8029 (8029) Aqua-Hardener 8450 (8450000210) Aquafix S (8110) Aquawood Covapro 20 (5023) Aquawood Covatop XT 20 (5020) Aquawood Finapro 20 (5101) Aquawood Finatop 40 (5140) Aquawood Intercare ES (5501) Aquawood Intercare ISO (5503) Aquawood Intercare SQ (5522) Aquawood Intermedio DQ (5706) Aquawood Intermedio ISO (5705) Aquawood Primo A2 (5452) Aquawood Primo (5453)

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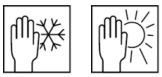
Aquawood Primo A4 (5454)
Aquawood Primo A5 (5455)
Aquawood Primo A6 (5456)
Top-Care (7227)
Top-Cleaner (7208)
Windoor Care-Set (7229)

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 Protect (Cat A/e): 130 g/l.
Aquawood Protect contains a maximum of 90 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.**

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