Pache SARL - 64 Route de Gravin, 74300 Magland
04 50 89 57 17 contact@pache-adler.fr
www.pache-adler.fr

Technical data sheet

Paint runs through our veins.

Aquawood Natureffekt 5127

Water-based, **dull matt wood stain** for **wood-aluminium windows** professional and industrial use.
System-matched in a 2- or 3-coat build-up

PRODUCT DESCRIPTION

General

Water-based, non-yellowing, dull matt wood stain based on a PUR dispersion with a natural appearance. The product is characterised by good resistance to light exposure, high scratch resistance, high block resistance and high chemical resistance.

Special properties and standards

- **ADLER green product**
  ADLER green products are objectively tested and certified according to three categories: Environment, Health & Safety, and Durability. Only products that score positively in all these areas are awarded the green sustainability label.
- **DIN 53160-1 and DIN 53160-2**
  Confirmed by an external test certificate.
  Perspiration and saliva-proof properties.
- **ÖNORM EN 71-3**
  Safety of toys; migration of certain elements (free of heavy metals)
- **Cradle to Cradle Certified® Silver**
  Cradle to Cradle Certified® is the global standard for products that are safe, circular and responsibly made.
- **French ordinance DEVL1104875A**
  Marking of construction coating products for their emission of volatile pollutants: A+

Application area

Dimensionally stable wood-aluminium components, such as e.g. windows and front doors.

For humid rooms (e.g. indoor swimming pools) only with a special build-up.

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.

PACHE sarl

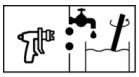
ADLER-Werk Lackfabrik, A-6130 Schwaz
Fon: +43/5242/6922-190, Fax: +43/5242/6922-309, Mail: technical-support@adler-lacke.com

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.

Pache SARL - 64 Route de Gravin, 74300 Magland
04 50 89 57 17 contact@pache-adler.fr
www.pache-adler.fr

- The optimal conditions for use are between 15 - 25 °C with a relative atmospheric humidity between 40 - 80 %.
- 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.
- We do not recommend applying two layers of Aquawood Natureffekt (5127) with intermediate sanding, because due to the content of a matting wax, a polishing effect and therefore a poor intermediate adhesion is possible.
- An intermediate coating with Aquawood Intermedio ISO (5705) is recommended to prevent air inclusions in deep-pored hardwood species and to avoid film interference on larch.
- When changing from Aquawood Natureffekt (5127) to other water-based paint systems, care must be taken to adequately clean the pipes and spray equipment, preferably with warm water.
- 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.
- Please follow our **ARL 300 - Working guideline for coating dimensionally stable and limited dimensionally stable construction elements - General part** along with all standards and guidelines for window construction.

Application technique



0–5% H_2O

	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)	225 - 275	
Dry film complete coating system (µm)	80 - 120	

The stated yield includes spray loss.

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.

PACHE Sarl

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

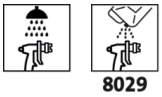
Dust-dry (ISO 1517)	approx. 30 minutes
Tack-free	approx. 3 hour(s)
Stackable with PE fine foam spacers at room temperature	approx. 4 hour(s)
Stackable with PE fine foam spacers after forced drying 20 minutes Evaporation/dripping zone 90 minutes drying stage (35 - 40 °C) 20 minutes cooling stage	approx. 130 minutes
Dried through	approx. 12 hour(s)

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

Wood in accordance with the guidelines for window construction.

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

1 x Aquawood Primo A1 (5451) - 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

For softwoods, no intermediate coat is required.

Hardwoods and Larch:

1 x Aquawood Intermedio ISO (5705)

Intermediate drying: approx. 2 hour(s)

Intermediate sanding

Grit size 220 – 280

Remove sanding dust.

Pache sarl

Finishing coat	1 x Aquawood Natureffekt (5127)
For front doors	To achieve optimal chemical and mechanical resistance, an additional application of Aquawood Protect (5128) (colourless two-component clear coating) is recommended, or alternatively the use of the Aquawood Protor or Aquawood Dura system. Deviations from this system recommendation may lead to reduced surface resistance.

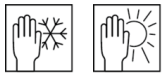
MAINTENANCE

Care	Annual cleaning with Top-Cleaner (7208) and maintenance with Top-Care (7227) in the package with Windoor Care-Set (7229).
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, 25 kg, 120 kg poly drum
Colour shades / Glosslevels	**Standard colour(s):** Farblos (5127000201) Barcelona, wie 53958 (5127053793) Berlin, wie 53954 (5127053789) Lissabon (53957) London, wie 53955 (5127053790) Paris, wie 53956 (5127053791) Stockholm, wie 53950 (5127053788) The final colour is basically obtained from the inherent colour of the wood, the applied quantity, the colour of the impregnation and the colour of the finishing coat. 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. In order to lay particular emphasis on the wood structure, the colour shade of Aquawood Primo (5453) selected should be darker than the one of Aquawood Natureffekt (5127).
Supplementary products	Clean Aqua-Cleaner 8029 (8029) Aquawood Intermedio ISO (5705) Aquawood Primo A1 (5451) Aquawood Primo A2 (5452) Aquawood Primo (5453) Aquawood Protect (5128) 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.

PACHE Sarl

Pache SARL - 64 Route de Gravin, 74300 Magland
04 50 89 57 17 contact@pache-adler.fr
www.pache-adler.fr

Technical specifications	VOC content of the ready-to-use mixture: Limit value according to Directive 2004/42/EC for Aquawood Natureffekt (Cat A/e): 130 g/l. Aquawood Natureffekt contains a maximum of 50 g/l VOC.
Giscode	BSW20
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.**

PACHE sarl