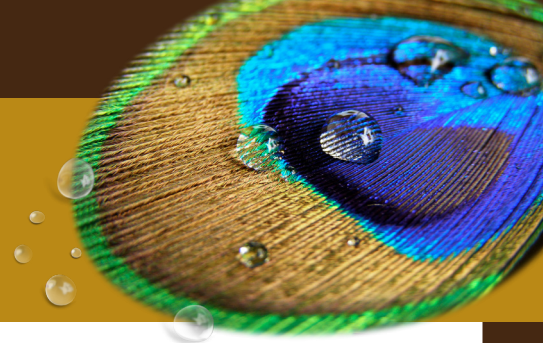


Undercoat

White matt undercoat for wood and ferrous metal,
for interior and exterior use



Opaque white, lightly slurring undercoat for wood, wood-based materials and ferrous metals in interior and exterior areas. Can also be used on firm old coats as an adhesion promoting, levelling intermediate coat. Further treatment with AGLAIA Weather Protection Lacquer for exterior use or AGLAIA Interior Lacquer for interior use.

1. Product Properties

As a classic natural resin oil lacquer, apart from tree resins, contains vegetable oils, which absorb oxygen on drying and interlink to form a diffusible and waterproof film. The pure vegetable oils are CO₂-neutral and are integrated in natural cycles. Recommended in building biology terms.

1.1. Composition

- Boiled concentration of tree resins, linseed oil and vegetable stand oils
- Aromatic compound-free solvent
- Mineral pigments: lightfast and of natural origin
- Highly extended with talcum and silicic acids
- Free from plasticisers and synthetic resins
- "Transparent recipe": see AGLAIA full product declaration

1.2. Technical properties

1.2.1. Overview

- For use on interior and exterior surfaces
- Highly adherent, non-flaking
- Low tension
- Diffusible
- Opaque white matt
- Easy to use
- Perspiration and saliva-fast to DIN 53 160 / EN 71 Part 3

1.2.2. Important building physics characteristics

Parameter	Value	Conformity
Density 20°C:	1.36 kg/L	
Viscosity:	approx. 140 s	3 mm flow cup ISO 2431
s _d value (H ₂ O):	< 0.5 m	
Gloss level at 85°C:	dull matt	EN ISO 2813
Flash point:	> 61°C	
Solids content:	approx. 78 % (high solid)	
VOC content (max.):	300 g/L	ChemVOCFarbV (Regulations limiting VOC emissions of paints and lacquers), Cat. A/d

1.2.3. Colour

- White.
- If used with full colour or tinted topcoat, can be tinted with up to 20% maximum of the corresponding coloured lacquer.

2. Use

2.1. Substrate requirements

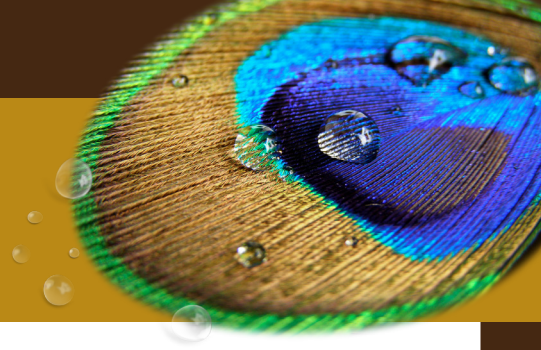
- The substrate must be clean, dry, firm and stable and must be free from efflorescent and separating substances.
- Ensure constructive wood preservation and wood quality free from blue stain, match chemical wood preservation to DIN 68800 Part 3 with coating system and resistance class.
- Bright ferrous metal or steel, suitable for corrosivity category C1-C3 to EN ISO 12944-2.
- Not suitable for zinc coated sheet steel and non-ferrous metals.

2.2. Brief information on the standard system

- **On wood:**
 - Prime with AGLAIA Wood Primer
 - Intermediate coat with AGLAIA Undercoat
 - 2 opaque coats of AGLAIA Weather Protection Lacquer or AGLAIA Interior Lacquer.

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- **On ferrous metals and steel:**
 - Prime with AGLAIA Corrosion Protection Primer
 - Intermediate coat with AGLAIA Undercoat
 - 2 opaque coats of AGLAIA Weather Protection Lacquer or AGLAIA Interior Lacquer.

2.3. Substrate and preparatory treatment

• Wood:

Sand the surface of absorbent, rough or non film-forming impregnated wood and prime with AGLAIA Wood Primer, saturate well. Sand off completely or replace any crumbly, weathered and greyed wood. Maximum wood moisture for softwood 15 %, for hardwood 12 %. Wash off grease, resin and wax thoroughly with AGLAIA Balsam Lacquer Thinner. Resin-rich exterior wood (e.g. larch) tends to resin flux in the heat. Always try out on a test area of oak (tannic acid!) and tropical wood species (discolouring, drying-delaying constituents!) as well as wood-based materials beforehand. Pay particular attention to suitability and the relevant coating guidelines of the supplier. Saturate wood-based materials (OSB, particleboards, MDF) and AGLAIA Penetrating Primer. After it has dried through, sand any shiny patches carefully until matt. Remove cracked, loose and flaking old lacquer or synthetic resin-based coatings pore deep by sanding down. Sand the surface of adherent, firm oil and alkyd resin coatings and coat with caustic lye. Prime the rear of panelling in wet rooms as well due to warpage if moisture is absorbed. Ensure back ventilation. Remove scratches or dents by grinding or sanding and smoothen with lacquer filler. Intermediate coat with AGLAIA Undercoat. Before installation, primer all sides of structural timbers and also lacquer once. Because of the odour, do not use oil lacquers or oily primers on the insides of cupboards and drawers. Coat only with AGLAIA Rapid Wood Primer W and only lacquer the fronts of furniture and exterior surfaces.

• Ferrous metals and steel:

Derust thoroughly, sand the surface and degrease with AGLAIA Balsam Lacquer Thinner. Prepare with AGLAIA Corrosion Protection Paint and AGLAIA Undercoat. Not suitable for zinc coated steel and non-ferrous metals.

- **Unsuitable substrates** are wood installed horizontally or sloped and slightly exposed to the weather as well as mechanically stressed wood and wood in contact with the soil. Note constructive and possible chemical wood preservation according to DIN 68800 Part 3. Tropical woods, oak and wood-based materials: try out on a test area. Plastoelastic, weak adhesion and brittle old coatings, e.g. acrylic-based, cannot be coated over. Zinc coated sheet steel, aluminium, anodic coatings, non-ferrous metals and areas highly at risk of corrosion are also not suitable.

- **Defective substrates** require a differentiated approach, try out on a test area on site.

2.4. Application instructions

2.4.1. General information

Check substrate suitability as required (see 2.1 and 2.3). Pay particular attention to the absorbency, strength and texture of the respective substrate. Try out on a test area before using on high quality surfaces. Ensure that the product is used by qualified persons only.

- Carefully cover surfaces which are not to be treated – especially floors, windows, furniture, expansion joints and hardware – and protect them from splashes.
- Provide personal protective equipment.
- Stir AGLAIA Undercoat thoroughly before use.
- Ensure sufficient qualified workers and smooth, uninterrupted coating process.
- Do not use in wet conditions, on heated or chilled through surfaces.
- Minimum application temperature: +8°C.
- Ensure sufficient ventilation (purge ventilation) and heat (room temperature) for drying, handle fresh coatings carefully.
- Drying time per coat: in normal climate is ready to sand and coat over after 24 hours.
- Only paint over dry coats.
- Tack-free in normal climate after several days, avoid excessive coat thicknesses and gluing up/clogging, e.g. in door rebate.

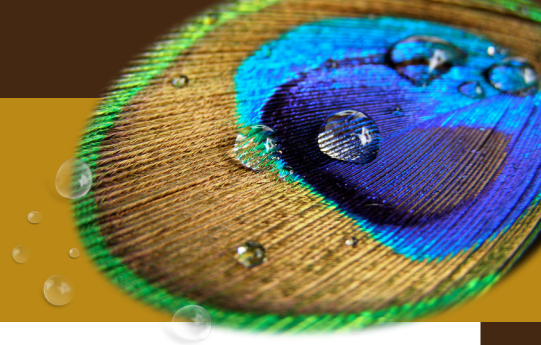
2.4.2. Application

With round brush, flat brush, lacquer roller or using spraying method (low pressure, high pressure, air-mix).

- Apply as a thin coating, smoothly seamlessly and uniformly in the direction of the grain or figure. Drying is retarded if applied too thickly and/or non-uniformly.
- Avoid excessive coat thicknesses, spread out well including on rough substrates and horizontal surfaces.
- If necessary, thin with up to 3 % AGLAIA Balsam Lacquer Thinner, especially the first coat, and if using a spray coating method.
- 1 – 2 coats as required, e.g. on highly contrasting or large-pored substrates. Ensure good edge cover.
- In case of dust inclusions and lengthy periods between the coats (> 1 week), finely sand the surface and remove dust first before coating over.
- Avoid excessive coat thicknesses if using spraying methods too, spread excess material carefully using a brush. Especially on horizontal surfaces and pockets, do not allow any "lakes", thick edges or runs and sags to dry on the surface. It is advisable to try out application on a test area. Note the risk of auto-ignition in extractor filter mats in case of oily overspray.

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2.5. Auxiliary products

- AGLAIA Wood Primer: universal oil primer for absorbent wood.
- AGLAIA Corrosion Protection Paint: corrosion inhibiting priming coat for ferrous metals.
- AGLAIA Balsam Lacquer Thinner: thinner and for substrate and tool cleaning.

3. Application Rate and Container Sizes

The application rate, i.e. the quantity required for smooth, normally absorbent substrates is approx. 0.08 L per m² and pass. Determine additional application rate on rough substrates by trying out on a sample area.

Container sizes: 0.25 L / 0.75 L / 3 L / 10 L

4. Cleaning

Use AGLAIA Balsam Lacquer Thinner to clean equipment, tools and soiled clothing thoroughly immediately after use.

5. Storage

Stored in original container, tightly closed, can be kept for at least 12 months. Close opened containers airtight. Remove any skin that has formed, do not stir into the product. Never pour into solvent-swellable containers.

6. Safety Instructions

- Comply with the EC Safety Data Sheet. Avoid contact with skin and eyes. Repeated exposure may cause skin dryness or cracking. Repeated contact may cause allergic reactions in people who are particularly sensitive. For details of product composition refer to AGLAIA full product declaration. Even natural products are not free from emissions. Ensure sufficient ventilation and heat. Do not occupy rooms until they are through-dry and all odours have dissipated. Do not breathe vapour/spray. Do not breathe sanding/grinding dust and spray. Protect the surroundings from splashes. No smoking, keep away from sources of ignition. Keep out of the reach of children. Avoid release into the environment. Obtain special instructions/refer to the safety data sheet for advice. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Cleaning cloths and other contaminated materials constitute a potential fire hazard. After use, collect in closed, non-flammable containers and dispose of safely. Dispose of product residues in accordance with the legal regulations.
- Waste code (EWC code): 080111

7. Declaration

This technical information is offered as advice based on our knowledge and practical experience. All information and tips are provided without guarantee and do not establish rights to make any claims of any kind whatsoever. The information provided does not release the user from their responsibility to check the product's suitability and application method for the specific substrate on which it is to be used. Subject to change without notice as part of our product development. Additives for tinting, thinning, etc. are not permitted. Check the colours before use. This information sheet becomes invalid automatically when a new edition is issued. The information in the current version of the EU Safety Data Sheets is binding for classification according to the Hazardous Substances Regulations, disposal, etc.

Head office: Louis Gnatz GmbH
Ottostraße 13
D-84030 Landshut
www.farben-gnatz.de

Factory: BEECK'sche Farbwerke
Louis Gnatz GmbH
Gottlieb-Daimler-Strasse 4
D-89150 Laichingen

Tel. +49 7333 96 07 11
Fax +49 7333 96 07 10
info@aglaia.de
www.aglaia.de