AGLAIA Hard-Wearing White / Color

Special abrasion resistant wall paint for interior substrates in heavy-use areas

1. Product Properties

In public use areas, on all cleanable wall surfaces in heavily-used areas, especially in clinics, kitchens and therapeutic facilities. Can also be used universally in food production companies, workshops, and laboratories. Suitable for glass fibre, nonwoven fabric and woodchip wallpaper, gypsum and cement plaster. Robust natural resin emulsion paint with eggshell finish. Resistant to the commonly used commercial cleaning products and disinfectants and short-term application of hot steam at approx. 95°C. Resistance fully conforming to EN standards cannot be achieved until after at least 28 day drying time. Valuable building biology properties because of renewable plant-based raw materials with environmental compatibility. Alternative to standard synthetic resin latex paints.

1.1. Composition

- Emulsified vegetable stand oils and modified resins
- Mineral pigments: lightfast and of natural origin
- Free from plasticisers and synthetic resins
- Solvent-free and low VOC
- “Transparent recipe”: see AGLAIA full declaration

1.2. Technical properties

1.2.1. Overview

- Use on interior surfaces
- Durable, robust and abrasion proof
- Maximum wet-scrub resistance
- Resistant to proprietary cleansers and disinfectants
- Low tension
- Opaque
- Closed-pore, medium gloss / eggshell finish

1.2.2. Important building physics characteristics*

Parameter	*Value*	*Conformity*
Density $_{20°C}$:	1.21 kg / L	
pH value $_{20°C}$:	8 – 9	
Dynamic viscosity $_{20°C}$:	9,000 mPas	
s_d value (H_2O):	> 0.5 m	
Hiding power / Contrast ratio*:	Class 2	EN 13300
Wet-scrub resistance*:	Class 1	EN 13300
Grain size:	Fine	EN 13300
Gloss level at 85°:	Medium gloss	EN ISO 2813
Flammability class:	A2 Non-flammable	EN 13501-1, DIN 4102
VOC content (max.):	2 g / L	Directive 2004/42/EC (limitation of VOC emissions of paints and lacquers), Cat. A / a

**) applies for white, hue-dependent variances possible*

1.2.3. Colour

- White and ready-mixed. Hue-dependent variances are possible, regarding hiding power, wet-scrub resistance, etc.

2. Use

2.1. Substrate requirements

- The substrate must be clean, dry, firm and stable and must be free from efflorescent and separating substances.
- Check drying and strength of new plaster.
- Carefully make good chipped surfaces and misses with the same type of material and the same texture.
- Use plaster to repair cracked substrates. Cover areas with hairline cracks with fabric or nonwoven wall covering.
- Ensure uniform substrates and careful application on high visual quality surfaces and in glancing light.

2.2. Brief information on the standard system

- Two coats of AGLAIA Hard-Wearing White / Color.
- Add water to AGLAIA Hard-Wearing to make it optimally coatable depending on substrate and application.

2.3. Substrate and preparatory treatment

• Gypsum plaster, plaster stucco, lime-cement plaster (PII), cement plaster (PIII):

Check drying and strength of plaster. Check new plaster for sinter skin; remove any sinter skin found by sanding. Prime absorbent plaster with AGLAIA Emulsion Primer. Consolidate superficially sanding, but nonetheless firm plaster with

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AGLAIA Emulsion Primer. High alkaline, new lime and cement plaster are less suitable for natural resin emulsion paints (saponification, film-forming). Recommendation: BEECK mineral paints.

• ***Gypsum boards:***

Ensure proper installation and required surface quality and evenness tolerances under the given on site and glancing light conditions (VOB/C and quality level 3 or 4, according to good practice guide No. 2 issued by the German gypsum industry association). Prime gypsum board with AGLAIA Emulsion Primer. An exception is water-repellent impregnated wet room boards; these are not to be primed. Recommendation: full surface bonding of fabric or nonwoven wall covering on lightweight building boards.

• ***Wood-based materials (OSB, particleboards, MDF):***

Prime with AGLAIA Wood Primer. Always try out on a test area on site (discoloration, stains). Full surface bonding of fabric or nonwoven wall covering is additional recommended. Not suitable for surfaces exposed to splashing or spray water, e.g. in sanitary units.

• ***Calcium silicate masonry, brick:***

Clean the surface thoroughly and check for absorbency, moisture damage and efflorescence (e.g. salt edges). Make good crumbly bricks and joints. Coat highly absorbent substrates with AGLAIA Emulsion Primer.

• ***Concrete:***

Thoroughly clean with water and formwork oil remover, and rinse off with clean water. Test the wettability of the cleaned substrate by spraying on water. Prime with AGLAIA Emulsion Primer. Apply two coats of AGLAIA Hard-Wearing White. For an even wall design, free from voids or shrink holes, coat the whole surface with cement filler or nonwoven wall covering.

• ***Nonwoven wall covering, fabric, textured/embossed wallpapers, woodchip wallpaper:***

Check for full, homogeneous and overlapping-free bonding of the whole surface, including in the area of joints.

• ***Old coatings:***

Check carefully for firmness and adhesion to the substrate. Use soapy water to brush matt and absorbent synthetic resin or natural resin-based emulsion coatings. Degrease lacquer, oil and latex coatings with proprietary caustic lye and rewash with clear water. Then sand glossy coatings until matt. Always try out on a test area of old coatings, as interactions such as odour emissions and delayed drying are possible. Brush off chalking coatings. Renovate highly alkaline lime wash and silicate coatings with BEECK Mineral Paints.

• ***Unsuitable substrates*** are less stable, efflorescent and non-porous substrates, e.g. clay or loam, plastics and metals. Not suitable for lime based plasters.

• ***Defective substrates*** require a differentiated approach. Try out on a test area of critical substrates such as unknown old coatings. Rooms with continuously high humidity and/or mould problems are unsuitable for natural resin emulsion paints. Use renovation plaster and BEECK Mineral Paints for damp basement and old building walls.

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.

- Carefully cover surfaces which are not to be treated – especially floors, windows, furniture and expansion joints – and protect them from splashes.
- Only use containers from the same production batch to coat self-contained areas.
- If applying tinted coatings, ensure sufficient qualified workers and smooth, uninterrupted coating process.
- Before use, stir AGLAIA Hard-Wearing White thoroughly with a powered mixing paddle before use.
- Add water to make optimally coatable.
- Do not apply on heated or chilled areas. Minimum application temperature: +16°C
- Drying time: at least 16 to 24 hours per coat. Final strength at room temperature after approx. 4 weeks.
- Ensure sufficient ventilation (purge ventilation) and heat (room ambient temperature) for several days for drying. Do not move into or furnish rooms until through-dried and odours have evaporated. Protect fresh coats from damage for several days.

2.4.2. Application

With roller or using an airless spraying method. Apply on self-contained areas with a thin coating, no overlapping and uniformly in one continuous pass with a cross coat.

• ***Application with the roller:***

-- Use rollers with a uniform coating finish.
-- Avoid roller edges and overlapping coats that have already begun to dry.
-- Cut-in edges smoothly and seamlessly, wet-on-wet, together with the main area.
-- Avoid excessive coat thickness, these result in shiny patches and slow drying.

• ***Coats:***

-- 1. Primer coat: mix with approx. 5 % to 10 % water to improve coatability.
-- 2. Topcoat: After at least 16 to 24 hours; undiluted or made optimally coatable with no more than 5 % water.

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• Spraying method (airless):
-- Nozzle: 0.43 mm / 0.017 inch. Always sieve the product before use. Thin with approx. 5 % water.
-- Apply uniformly and as a thin coat; if necessary, use a roller to lay-off.

3. Application rate and Container Sizes
The application rate, i.e. the quantity required for smooth, normally absorbent substrates is approx. 0.14 L per m² and pass. Try on a test area on site to determine consumption and the number of coats required.
Container sizes: 1 L / 4 L / 12.5 L

4. Cleaning
Clean equipment, tools and soiled clothing thoroughly with soapy water immediately after use. Repeat several times. Do not remove tools from the paint until the work is completed.

5. Storage
Stored cool and frost-free in the original container can be kept for at least 12 months. Use up opened container as soon as possible.

6. Hazard notes, Safety instructions and Disposal
Comply with the safety data sheet. Safety data sheet available on request. This product is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008. Keep out of reach of children. Do not get in eyes, on skin, or on clothing. Avoid release to the environment. Dispose of contents/container to hazardous or special waste collection point. May produce an allergic reaction. Do not breathe vapours, dust or spray mist. Carefully protect the area surrounding the surface to be coated, wash off splashes immediately with water. Disposal in accordance with the official regulations.

- Waste disposal number: 080112

7. Declaration
This technical information is offered as advice based on our knowledge and practical experience. All information is provided without guarantee. It does not release the user from their responsibility to check the product suitability and application for the specific substrate on which it is to be used. Subject to change without notice as part of our product development. Non-system additives for tinting, thinning, etc. are not permitted. Check the colours before use. This information sheet automatically becomes invalid when a new edition is issued. The information in the current version of the Safety Data Sheets is binding for classification according to the Hazards identifications, disposal considerations, etc.

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