



TECHNICAL DATA SHEET

Description of the product

ULTRALAC AQUA is an **ecological** water-based alkyd enamel paint for interior and exterior used on wood and metal surfaces. It is practically odorless, easy to apply and dries quickly. It presents high coverage and an elastic film. It has good adhesion on **ULTRALAC** and old enamel paints. It contributes to **indoor air quality** thanks to very low emissions of organic compounds (**class A+**). With certified **antimicrobial property** for the painted surface (**IMSL**). It is available in gloss, satin and mat finish.

Recommended uses

It is applied on interior and exterior surfaces of wood and metal (provided the surfaces have previously been treated properly with the water-based anticorrosive primer PRIMETAL AQUA).

Technical characteristics

Resin: Modified alkyd resins

Density (white gloss): 1.28±0.06 gr/ml, depending on the finish (EN ISO 2811.01, 20°C)

Production Viscosity: 105±5 KU (ASTM D 562, 25°C)

Storage viscosity: 105±15 KU (ASTM D 562, 25°C)

Solids b.w. (white gloss): 49±4% (EN ISO 3251)

Solids b.w. (white satin & mat): 53±2% (EN ISO 3251)

Solids b.v.: 39±3% (ISO 3233)

pH: 7.6±0.4 (ISO 976)

Freeze thaw stability (-5°C): OK (ELOT 777)

VOC (Volatile Organic Compounds): **ULTRALAC AQUA** belongs to the category A/d WB (Interior/ exterior trim and cladding paints for wood and metal). EU Limit Value: 130 g/l. The ready to use product contains max. 40 g/l.

Shades

Available in white gloss, satin, mat and in thousands of ecological shades via the tinting system CHROMASYSTEM. It is also available in 24 ecological gloss ready-made shades.

Properties

Hiding power for SR 20 m²/Lt: CR: 95±1% (ISO 6504.03)

Whiteness index: ≥ 70 (ASTM E 313)

Yellowing index: ≤ 5 (ASTM E 313)

Gloss: Gloss 20°: ≥ 74, Satinet 60°: 45±10, Mat 85°: ≤ 20 (EN ISO 2813)

Hardness (König): 32±8 sec, after 7 days (EN ISO 1522)

Bend test (Mandrel test): 2 mm OK (EN ISO 1519)

Adhesion (Cross cut, VELATURA AQUA as a primer): 0-2 (EN ISO 2409)

Scratch test: ≥ 6 N (EN ISO 1518)

Block Resistance: ≥ 8 (ASTM D 4946)

Exposure to fluorescent UV & Water: (EN ISO 11507)

500 h: No change is noted on the film

Blistering: 0 S(0) (ISO 4628.2)

Cracking: 0 S(0) (ISO 4628.4)

Flaking: 0 S(0) (ISO 4628.5)

Chalking: 0 S(0) (ISO 4628.6)

Resistance to water: No change is noted on the film (EN ISO 2812.1)

Sag Resistance (undiluted product): 125 µm (ASTM D 4400)

Emissions of volatile organic compounds: Class A+ (EUROFINS, report 392-2022-00270403_E_EN)

Antibacterial action (24 hour contact time): 99,99% (Escherichia Coli, Staphylococcus Aureus) (ISO 22196)

Spreading rate

Dry film thickness per coat: 23±3 µm.

Recommended total dry film thickness: 46±6 µm.

Spreading rate: 12±1 m²/Lt for complete hiding (2 coats).

Application instructions

Surfaces should be clean from oil, rust, dust and flaking parts must be removed. It is recommended that wooden surfaces, coated for the first time, are previously treated with **VELATURA AQUA** or **AQUAVEL**. Metal surfaces should be treated with the anticorrosive primer **PRIMETAL AQUA**.

ULTRALAC AQUA is applied in 2 coats. Especially for dark low hiding colours, it is recommended to prime with **VELATURA AQUA** slightly tinted.

Application method: Brush, roller, airless spray.

Diluent: Water.

Thinning: *For application with brush, roller:* Dilute 10-15% v/v. *For spraying:* Dilute up to 20% v/v.

Tools are cleaned immediately after the application with plenty of soap and water. Rinsing water and paint residues should not be disposed into rivers or sewers or thrown away with household residues.

Drying time

Set to touch: 25±10 minutes (ASTM D 1640-03).

Dry through: 3±1 hours.

Recoating time: 6±1 hours.

Drying and recoating time may be prolonged under conditions of low temperature and high relative humidity.

Coating system

Wooden surfaces are primed with **VELATURA AQUA** or **AQUAVEL**. Metal surfaces are primed with an appropriate anticorrosive primer.

Other systems may be applied, depending on the application.

Packaging

White **ULTRALAC AQUA** Gloss is available in 0.375 Lt, 0.75 Lt and 2.5 Lt cans. White **ULTRALAC AQUA** Satinet & Mat are available in 0.75 Lt and 2.5 Lt cans. Bases A, B, C available in 0.75 Lt and 2.25 Lt cans.

Storage

1 year, provided the cans remain closed and in normal storing conditions. After use, the remaining undiluted product may be preserved if the can is sealed and stored in a dry room with temperatures 5-30°C.

Health and safety

Please refer to the labeling mentioned on the can. In case more information is needed refer to the Material Safety Data Sheet.

Notes

- It is recommended not to apply the product at temperatures below 10°C. Painted surfaces should not be washed until 20-30 days have elapsed from the application.
- Avoid recoating after 10-15 minutes have elapsed from the application depending on the temperature and the relative humidity.
- **ULTRALAC AQUA** yellows with time.
- **ULTRALAC AQUA BASES** are **ONLY** used for the production of colored shades via **CHROMASYSTEM**. They should not be applied without the special colorants **CHROMATINT**.

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