



TECHNICAL DATA SHEET



Description of the product

AQUALAC is a water-based acrylic enamel paint. Due to its special composition it does **not yellow**. Its application is pleasant, because it has low odor. It provides an elastic film and is resistant to frequent washing. It spreads evenly and dries quickly. It doesn't contain lead. It is available in gloss and satin finish.

Recommended uses

It is applied on interior and exterior surfaces of wood, metal (provided the surfaces have previously been treated with the anticorrosive primer **PRIMETAL AQUA**), plaster and on surfaces that have already been coated with solvent- based enamels.

Technical characteristics

Resin: Acrylic

Density (white): Gloss: 1.21 ± 0.05 gr/ml
Satinet: 1.26 ± 0.05 gr/ml

(EN ISO 2811.01, 20°C)

Production Viscosity: 125 ± 15 KU

(ASTM D 562)

Storage viscosity: 125 ± 25 KU

(ASTM D 562)

Solids b.w. (white): $52 \pm 2\%$

(EN ISO 3251)

Solids b.v. (white): Gloss: $43 \pm 3\%$
Satinet: $40 \pm 3\%$

(ISO 3233)

pH: 8.7 ± 0.8

(ISO 976)

Accelerated ageing in the can: 10/10 (1 month, 50°C)

(ASTM D 1849)

Freeze thaw stability (-10°C): OK

(ELOT 777)

VOC (Volatile Organic Compounds): **AQUALAC** belongs to the category A/d WB (Interior/exterior trim and cladding paints for wood and metal). EU Limit Value: 100 g/l. The ready to use product contains max. 35 g/l.

Shades

Available in white and in thousands of shades via the tinting system **CHROMASYSTEM**.

Properties

Hiding power for SR 20 m²/Lt Gloss: CR: $95 \pm 2\%$
Sat: CR: $94 \pm 2\%$

(ISO 6504.03)

Whiteness index: ≥ 80

(ASTM E 313)

Yellowing index: ≤ 1.5

(ASTM E 313)

Gloss 60°: Gloss: 77 ± 10
Satinet: 45 ± 10

(EN ISO 2813)

Wet scrub resistance: > 6000 cycles

(ASTM D 2486)

Adhesion (Pull off, AQUAVEL as a primer): ≥ 2.0 N/mm²

(EN ISO 4624)

Recoatability: No change is noted on the film

(ELOT 788 § 5.4)

Block Resistance: 0-1

(ASTM D 4946)

Hardness (König): 50 ± 15 sec, after 7 days

(EN ISO 1522)

Bend test (Mandrel test): 2 mm OK

(EN ISO 1519)

Scratch test: > 9 N

(EN ISO 1518)

Spreading rate

Dry film thickness per coat: $25 \pm 3 \mu\text{m}$.

Recommended total dry film thickness: $50 \pm 5 \mu\text{m}$.

Spreading rate: $10 \pm 0.5 \text{ m}^2/\text{Lt}$ for complete hiding, depending on the shade.

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 **AQUAVEL**. Metal surfaces should be treated with the anticorrosive primer **PRIMETAL AQUA**.

AQUALAC is applied in 2-3 coats.

Application method: Brush, roller, airless spray.

Diluent: Water.

Thinning: *For application with brush, roller:* Dilute 5-10% v/v. *For spraying:* Dilute up to 20% v/v.

Tools are cleaned immediately after the application with plenty of soap and water.

Drying time

Set to touch: 40 ± 8 minutes (ASTM D 1640).

Dry through: $1\frac{1}{2} \pm \frac{1}{2}$ hours.

Recoating time: 6 ± 1 hours.

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

Coating system

On wooden surfaces, after the application of **AQUAVEL** it is recommended to apply **AQUALAC** as the top coat. On metal surfaces it is recommended to use **PRIMETAL AQUA** before the application of **AQUALAC**.

Other systems may be applied, depending on the application.

Packaging

It is available in 0.75 Lt and 2.5 Lt cans.

Storage

1 year, provided the cans remain closed and in normal storing conditions.

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 5-10 minutes have elapsed from the application depending on the temperature and the relative humidity.
- Because it is an acrylic water-based product **it does not yellow**.
- **AQUALAC** does not contain lead in its formulation.
- It has good adhesion on **ULTRALAC** and old paints.
- **AQUALAC 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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This issue replaces all others*

