

MOBILAC Aqua



TECHNICAL DATA SHEET

Description of the product

MOBILAC AQUA is an **ecological water-based enamel** paint based on alkyd resins for exterior surfaces. It combines elasticity and hardness and provides **excellent adhesion** on the metal surfaces and resistance to **scratching**. It protects the surface from humidity, UV sun rays and **adverse weather conditions**. It is characterized with long-lasting gloss and unaltered shades. It is easily applied, spreads evenly and can be **recoated** after a few hours. It shows exceptional resistance to temperatures up to 100°C. It protects the user and the environment because it does not contain heavy metals and dangerous substances in its formulation.

Recommended uses

It is applied on exterior metal surfaces (metal structures, machines, etc). It is also used as a top-coat for radiators, hot water pipes and generally surfaces heated up to 100°C.

Technical characteristics

Resin: Modified polyurethane alkyd resin

Density (white): 1.23 ±0.04 gr/ml

(EN ISO 2811.01, 20°C)

Production Viscosity: 100±3 KU

(ASTM D-562, 25°C)

Storage Viscosity: 100±13 KU

(ASTM D-562, 25°C)

Solids b.w. (white): 48±2%

(EN ISO 3251-03)

Solids b.v. (white): 34±2%

(ISO 3233)

pH: 7.5±0.5

(ISO 976)

Freeze-thaw stability(-5°C): OK

(ELOT 777)

VOC (Volatile Organic Compounds): **MOBILAC 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 white product contains max. 30 g/l.

Shades

Available in ecological white gloss and gloss shade, 2 ready-made ecological gloss colour shades (black and dark green) and in thousands of ecological gloss shades via CHROMASYSTEM.

Properties

Hiding power for SR 20 m²/Lt : CR: 92.5±1%

(ISO 6504.03)

Whiteness index: ≥ 83 **Yellowing index:** ≤ 2.5

(ASTM E 313)

Adhesion (Cross-Cut): As a system with PRIMETAL AQUA: 0-2

(EN ISO 2409)

(1 coat PRIMETAL AQUA + 2 coats MOBILAC AQUA)

Hardness (König): 53±15 sec, after 7 days

(EN ISO 1522)

Impact Test: As a system with PRIMETAL AQUA: in/out 18±4/0-2 inch/pounds

(ASTM D 2794)

(1 coat PRIMETAL AQUA + 2 coats MOBILAC AQUA)

Bend test (Mandrel): 2-3 mm OK

(EN ISO 1519)

Gloss 20°/60°: ≥ 75/ ≥ 85

(EN ISO 2813)

Scratch test: 13±2 N

(EN ISO 1518)

Sag resistance Undiluted: 200±25 µm

(ASTM D 4400)

Diluted (15% v/v.): 125±25 µm

Exposure to fluorescent UV & Water:

(EN ISO 11507)

500 h: No change is noted on the film.

Resistance to salt spray:

As a system with PRIMETAL AQUA: Very good protection for at least 600 hours.

(EN ISO 9227)

(1 coat PRIMETAL AQUA + 2 coats MOBILAC AQUA)

Spreading rate

Dry film thickness per coat: 30±5 µm.

Recommended Total Dry Film Thickness: 75±10 µm.

Spreading rate: 11.3±2 m²/Lt, per coat, for dry film thickness 30±5 µm.

Application instructions

Surfaces are cleaned from oil, dust and flaking parts are removed. For removing or stabilizing the rust, apply **PRERUST** or **RUSTABIL** respectively. For absolute protection of the surface it is recommended to apply 1 coat of the alkyd based anticorrosive primer **PRIMETAL AQUA**.

MOBILAC AQUA is applied in 2-3 coats.

Application method: Brush, roller, spray.

Diluent: Water.

Thinning: For application with brush, roller: Dilute up to 10% v/v [Application viscosity: 82.5±10 KU (ASTM D-562, 25°C)].

For spraying: Dilute up to 15% v/v [Application viscosity: 75±10 KU (ASTM D-562, 25°C), Nozzle size: 1.6-1.8 mm, Air pressure: 2-3 bar].

For airless spraying: No dilution is necessary. [Nozzle size: 0.009-0.013 inches, Air pressure: 80-100 bar].

Tools are cleaned immediately after the application with soap and water. Rinsing water and paint residues should not be disposed into rivers or sewers or thrown away with household refuse or poured away. Follow the advice of the local authority regarding the disposal and collection of unused paint.

Drying time

Dry to touch: 25±8 minutes (ASTM D 1640).

Dry through: 4±1 hours.

Recoating time: After 6 hours.

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

Coating system

On galvanized surfaces it is recommended to use ADHEX.

Other systems may be applied, depending on the application.

Packaging

It is available in 0.75 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 to avoid application of the product at temperatures below 10°C, greater than 35°C and relative humidity higher than 75%.
- **MOBILAC AQUA BASES** are **ONLY** used for the production of colored shades via **CHROMASYSTEM**. They should not be applied without the special colorants **CHROMATINT**.
- For more information as to why this product has been awarded the Flower please visit the web-site: www.ecolabel.eu.

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