

Technical Datasheet

ISOLAC-AQUA ECO EGGSHELL

Premium, eco-friendly, water-based enamel paint for woodwork – Eggshell finish

Description

ISOLAC-AQUA ECO EGGSHELL is a premium, new-generation, eco-friendly, water-based enamel paint with a matt, low-sheen finish for all interior and exterior woodwork. Applicable also to metal, plaster, galvanized surfaces, etc., provided a suitable primer is used. Features high flexibility, excellent surface coverage and opacity. Shows outstanding resistance to weather conditions, aging and frequent washing, while offering non-yellowing properties. Provides strong adhesion and is suitable for repainting previously coated surfaces with water- or solvent-based enamels. Has excellent workability and quick-drying time. Nearly odorless, environment- and user-friendly. Certified according to the criteria of the European Union Ecolabelling Board (EUEB). Complies with EN 71-3:2019 + A1:2021 Toy Safety Standard.

Has achieved the Eurofins Indoor Air Comfort GOLD certification, which sets the stringent criteria for very low emissions of volatile organic compounds (VOCs) and contributes to good indoor air quality, ensuring a safe and healthy living environment.

Classified A+ (the highest rating), according to the French VOC regulation, for evaluation of VOC emissions.

Fields of application

For interior and exterior use on new or old woodwork, metal, plaster, galvanized surfaces, etc.

Technical data

Colors:	white and selected colors (ISOMAT COLOR SYSTEM)
Type:	water-based enamel paint
Volume solids:	40 ± 2%
Density:	1.31 kg/l
Viscosity (Poise):	15-20
pH:	8-9 at +23°C

Capillary water absorption:	0.05 kg/m ² h ^{0.5}
Bond strength:	2.0 N/mm ²
Gloss level:	6-16 at 60°
Opacity:	≥ 97%
Whiteness:	≥ 95%
Drying time:	40-60 min (touch dry)
Recoat time:	4-6 h

Cleaning of tools:

Remove as much paint as possible from application tools before cleaning. Clean tools thoroughly with water and detergent immediately after use.

Directions for use

1. Substrate preparation

The substrate should be dry and free of grease, loose particles, dust, etc., while any imperfections should be rubbed down with sandpaper.

1.1. Wood or plaster surfaces

The surface should be primed with ISOLAC-AQUA ECO PRIMER thinned up to 5-10% with clean water for brush or roller application and up to 20-30% for airless spray application.

1.2 Metal surfaces

The surface should be primed with ISOLAC-RUST PRIMER. For application to galvanized metals or aluminum, the surface should be primed with EPOXYCOAT-AC anti-corrosion epoxy primer. After 24 hours and as long as the primer has completely dried, the first coat of ISOLAC-AQUA-ECO EGGSHELL can be applied.

2. Application

Before using ISOLAC-AQUA ECO EGGSHELL, gently stir its content and apply it in two coats, thinned up to 5-10% with clean water for application with brush or roller, and up to 20-30% for airless spray application.

The second coat is applied after the first one has completely dried. Temperature during application and drying of the paint should be between +10°C and +35°C.

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Coverage

ISOLAC-AQUA ECO EGGSHELL covers approx. 12 m²/l per coat, on previously prepared surfaces.

Packaging

ISOLAC-AQUA ECO EGGSHELL is available in 0.75 and 2.5 l containers.

Shelf life – Storage

24 months from production date if stored in original, unopened packaging at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.

Volatile Organic Compounds (VOCs)

According to Directive 2004/42/CE (Annex II, table A), the maximum VOC content limit value for the product subcategory d, type WB, is 130 g/l (2010) of ready-to-use product.

Regarding the ecological criteria for the award of the EU Ecolabel, pursuant to Decision (EU) 2018/666 amending Decision 2014/312/EU (Appendix, Table 3), the maximum VOC content limit value for the product subcategory d is 80 g/l of ready-to-use product.

The ready-to-use product ISOLAC-AQUA ECO EGGSHELL contains max. 80 g/l VOC.



2032

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2032-CPR-10.11

DoP No.: ISOLAC AQUA / 1438-01

EN 1504-2

Surface protection products

Coating

Permeability to CO₂: Sd > 50m

Water vapor permeability: Class I (permeable)

Capillary absorption: $w < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$

Adhesion: $\geq 1.0 \text{ N/mm}^2$

Dangerous substances comply with 5.3

Reaction to fire: Class F