

Technical Datasheet

ISOMAT SMART CLEAN PAINT

Antimicrobial eggshell paint for interior use

Description

ISOMAT SMART CLEAN PAINT is a premium antimicrobial paint for interior use. Features excellent surface coverage and opacity while offering great workability and flow. Provides strong adhesion to any type of new or old substrate. Has quick drying and recoat times. Delivers a beautiful eggshell (velvet matt) finish. Nearly odorless.

Expertly formulated with Silver Ion technology to actively inhibit the growth of harmful bacteria and fungi on the paint film.

Successfully tested for its antimicrobial properties according to ISO 22196:2011 and EN 15457:2022. Shows high resistance to frequent washing while making easy to remove (clean up) common household stains given its smooth, non-absorbent film (Class 1, EN 13300/ISO 11998).

Complies with Toy Safety Standard EN 71-3:2019 + A1:2021, Category III, on migration of certain elements.

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

ISOMAT SMART CLEAN PAINT is suitable for use on new or old interior surfaces, on all common building materials, including concrete, plaster, gypsum board, etc. For use also on surfaces treated with acrylic or cement-based fillers.

Ideal for spaces where high hygiene standards and resistance to repeated washing are required, such as hospitals, medical centers, operating rooms, schools, nurseries, kindergartens, children's rooms, retirement homes, hotels, the food and pharmaceutical industries, restaurants and other similar food service facilities, busy environments, spaces with high humidity, etc.

Technical data

Colors:	white and a wide range of colors (ISOMAT COLOR SYSTEM)
Type:	acrylic
Volume solids:	43 ± 2 %
Dry film thickness: (EN ISO 2808)	32 ± 3 µm
Wet film thickness: (EN ISO 2808)	72 ± 5 µm
Viscosity: (EN ISO 2884-2)	115 ± 5 KU
Density (WHITE): (EN ISO 2811-1)	1.38 ± 0.03 kg/l
Adhesion: (EN ISO 4624)	≥ 2.5 N/mm ²
pH: (EN ISO 4316)	8-9.5
Drying time: (EN ISO 9117)	~ 1 h (touch dry)
Recoat time: (EN ISO 9117)	3-4 h
Vapor permeability: (EN ISO 7783-2, V ₂ medium, 0.14 < Sd < 1.4)	Sd = 0.20 ± 0.04 m
Capillary water absorption: (EN ISO 1062-3: W ₃ low, w < 0.10 kg/m ² h ^{0.5})	w = 0.04 ± 0.02 kg/m ² h ^{0.5}
VOCs:	< 6 g/l

Measurements acc. to EN 13300

Gloss level: 15 ± 5%, Eggshell (EN ISO 2813: 5-15, at 85°)

Whiteness: ≥ 89% (ASTM E313-15)

Wet scrub resistance: CLASS 1 (EN ISO 11998: < 5 µm, at 200 wash cycles)

Cleaning of tools:

Tools should be cleaned with water immediately after use.



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Directions for use

1. Substrate preparation

The substrate should be dry and free of grease, loose particles, dust, etc.

- Cracks or joints may be filled with ISOMASTIC-A acrylic sealant or ISOMAT ACRYL-STUCCO acrylic filler.
- Concrete imperfections should be repaired with DUROCRET polymer-modified mortar.
- Plastered wall may be repaired with UNICRET and UNICRET-FAST premixed mortars.
- For surface smoothing, STUCCOCRET powder filler should be used.

The substrate should be primed with the acrylic, micronized, water-based primer PRIMER-CLASSIC, thinned up to 50% with clean water. PRIMER-CLASSIC is also ideal to use for the stabilization of loose or crumbly substrates. As an alternative to PRIMER-CLASSIC, the acrylic water-based primer FLEX-PRIMER may also be used. When it comes to dark paint colors (base TR), it is recommended to apply a coat of ISOMAT SMART CLEAN PAINT tinted in a light shade of the same color tone on a base with higher opacity (e.g. base P).

Surfaces stained by smoke, nicotine, exhaust fumes, water-soluble markers, pencils, etc. should be primed with the stain blocker BLOCK-PRIMER. Priming is not necessary on previously painted surfaces providing the old paint is sound.

2. Application

ISOMAT SMART CLEAN PAINT should be thoroughly stirred before use. It is applied as is or thinned 5-10% with clean water, in two coats using a roller, brush, or airless spray. The second coat is applied once the first one has completely dried.

Coverage

ISOMAT SMART CLEAN PAINT covers approx. 15 m²/l per coat, on previously prepared surfaces.

Packaging

ISOMAT SMART CLEAN PAINT is supplied in 0.75 l, 3 l and 10 l buckets.

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 allowed VOC content for the product subcategory a, type WB, is 30 g/l (2010) for the ready-to-use product.

The ready-to-use product ISOMAT SMART CLEAN PAINT contains a maximum of 30 g/l VOC.

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