

ISOMAT PROFESSIONAL ACRYL

Acrylic emulsion paint for interior and exterior use

Description

ISOMAT PROFESSIONAL ACRYL is recommended for new or old surfaces that require frequent painting, such as public buildings, hotels, hospitals, schools, as well as surfaces that are tarnished by graffiti.

It is used as a surface protection coating according to EN 1504-2. It is also used as a coating for the protection of concrete from carbonation, according to EN 1062-6.

It is characterized by great workability and surface coverage, opacity, as well as high resistance to ageing, washability and weathering. It dries quickly, thus can be promptly recoated.

Fields of application

ISOMAT PROFESSIONAL ACRYL is used for indoor or outdoor applications, on new or old surfaces, on substrates such as concrete, plaster, bricks, gypsum boards, asbestos-cement, wood, on puttied surfaces by acrylic putties or cementitious putties etc.

Technical data

Colors: white and 1423 selected colors (ISOMAT COLOR SYSTEM)

Type: 100% acrylic emulsion paint

Flash point: >98 °C

Volume solids: 40,7%

Density: 1,47 kg/l
(EN ISO 2811- 1)

Viscosity (Poise): 14
(EN ISO 2884- 2)

pH: 8,4 at +23°C
(EN ISO 4316)

Adhesion: 1,80 N/mm²
(EN ISO 4624)

Dry film thickness: 34,7 µm per layer (wet film: 83,3 µm)
(12 m²/l coverage)
(EN ISO 2808)

Capillary water absorption: 0,08 kg/m²h^{0.5}
(EN ISO 1062- 3: W₃ low, w < 0.1 kg/m²h^{0.5})

Water vapor permeability: S_d = 0,210
(EN ISO 7783:2011 V₂ medium, 0,14 < S_d < 1,4 m).

Resistance to water vapour: µ=5700
(EN ISO 7783:2011)

CO₂ permeability: S_d = 193 m
(EN 1062-6 requirement: S_d>50m)

Artificial weathering:
No blistering, no flaking, no chalking, no cracking
(EN ISO 4628:2012).

Solar Reflectance (SR): 87%
(ASTM E903-96)
(ASTM G159-98)

Infrared Emittance: 0,89
(ASTM C1371-04a)

Solar Reflectance Index (SRI): 110
(ASTM E1980-01)

Drying time: 1 h in 23 °C (to the touch)
(EN ISO 9117)

Recoating in: 3-4 h in 23 °C
(EN ISO 9117)

Alkali resistance: complies ASTM 1308

Lead free: Complies with ASTM D333/64

Voc content: 15,82 g/l Complies with directive 2004/42/CE (Annex II, Table A) product subcategory c, type WB.

Flexibility: 47 %
Elongation at break point (ASTM D412)

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Fineness of grid: 10 µm
(ASTM D1210)

Measurements acc. EN 13300

Gloss level: 4,5 Matt
(EN ISO 2813: < 10 at 60°)

Hiding power (Opacity): min 98,2 %
(EN ISO 6504- 3)

Whiteness: min 88,9 %
(EN ISO 6504- 3)

Wet Scrub Resistance: CLASS II (6,5)
(EN ISO 11998: ≥ 5 µm & < 20 µm at 200 wash cycles)

Cleaning of tools:
Remove as much paint as possible from the used tools, before cleaning. Clean the 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.

- Cracks or joints are filled with ISOMASTIC-A acrylic sealant.
- Any imperfections in concrete should be patched with DUOCRET polymer-modified

mortar, while imperfections in exposed concrete should be treated with PLANFIX or PLANFIX-FINE polymer-modified putties.

- Plastered wall may be patched with UNICRET and UNICRET-FAST premixed mortars.

The substrate should be primed with the silicone acrylic, micronized, water-based primer PRIMER ACRYL, thinned up to 50% with clean water or with the acrylic, water based primer PRIMER PROFESSIONAL, thinned up to 10% with clean water. These primers are also ideal to use for stabilizing a loose or crumbly substrate.

2. Application

Before use, lightly stir the content and apply it as it is or thinned with 5-10% clean water. Two coats of ISOMAT PROFESSIONAL ACRYL are applied

with a roller, brush or airless gun. The second coat is applied, after the first coat has completely dried. Temperature during application and drying of the paint should be between +10°C and +35°C.

Coverage

ISOMAT PROFESSIONAL ACRYL covers 10-12m²/l per coat, when applied on previously prepared surfaces.
(EN ISO 6504- 1).

Packaging

ISOMAT PROFESSIONAL ACRYL is supplied in 0.75 l, 3 l and 9 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 sun exposure and frost.

Volatile Organic Compounds (VOCs)

According to the Directive 2004/42/CE (Annex II, table A), the maximum allowed VOC content for the product subcategory c, type WB is 40 g/l (2010) for the ready-to-use product.

The ready-to-use product ISOMAT PROFESSIONAL ACRYL contains a maximum of 40 g/l VOC.

ISOMAT PROFESSIONAL ACRYL



2032

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DoP No.: ISOMAT PROFESSIONAL ACRYL

/ 1427-03

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

Artificial weathering: Passes

Dangerous substances comply with 5.3

Reaction to Fire: F

ISOMAT S.A.

BUILDING CHEMICALS AND MORTARS

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