

ISOMAT FLEXCOAT

Premium, elastic, waterproofing paint

Description

ISOMAT FLEXCOAT is a premium, elastic, waterproofing paint based on acrylic resins. Offers absolute water impermeability thus protecting walls against rain. Shows high elasticity and crack-bridging ability, making it ideal for surfaces prone to hairline cracking. Being vapor-permeable, it allows building breathability while preventing the penetration of harmful agents, such as CO₂. Features excellent surface coverage and opacity, strong bonding and outstanding resistance to weather conditions and washing. Suitable for indoor and outdoor applications on new or old surfaces.

Certified according to EN 1504-2 and classified as a coating for surface protection of concrete. CE marked.

Fields of application

ISOMAT FLEXCOAT is suitable for outdoor and indoor applications, on old and new surfaces, such as exposed concrete, plaster, brickwork, asbestos cement, gypsum boards, etc. Applicable over bituminous layers, bituminous membranes and polyurethane layers for their protection against sunlight.

It is also recommended for use in interior spaces where frequent cleaning and high resistance are required, such as kitchens, bathrooms, garages, hospitals, industrial areas, etc.

Technical data

Colors:	white and thousands of selected colors (ISOMAT COLOR SYSTEM)
Type:	100% acrylic paint
Flash point:	98°C
Volume solids content:	50±3 %
Viscosity (Poise): (EN ISO 2884-2)	14-18
Density: (EN ISO 2811-1)	1.37±0.03 kg/l
pH: (EN ISO 4316)	8-9.5 at +20°C

Elongation at break: (EN ISO 527)	120±10 %
Waterproofing: (DIN 1048-5)	7 atm
Dry film thickness: (wet film: 125 µm) (EN ISO 2808)	60±2 µm per layer
Capillary water absorption: (EN ISO 1062- 3: W ₃ low, w < 0.1 kg/m ² h ^{0.5})	0.01 kg/m ² ·h ^{0.5}
Water vapor permeability: (EN ISO 7783:2011 V ₂ medium, 0.14 < S _d < 1.4 m)	S _d = 0.29±0.05 m
CO ₂ permeability: (EN 1062-6 requirement: S _d > 50m)	S _d = 177±10 m
Adhesion strength: (EN 1542, requirement for flexible systems with no traffic: >0.8 N/mm ²)	≥2.9 N/mm ²
Artificial weathering: (no blistering, cracking or flaking) (EN 1062-11 after 2000 h)	Pass
Reaction to fire: (EN 13501-1)	Euroclass F
Solar reflectance: (ASTM E903-96) (ASTM G159-98)	89 %
Infrared emittance coefficient: (ASTM C1371-04a)	≥ 0.86
Service temperature:	from -25°C to +80°C
Minimum application temperature:	+5°C
Drying time (23°C): (EN ISO 9117)	1 h (touch dry)
Recoat time (23°C): (EN ISO 9117)	3-4 h
<u>Measurements acc. EN 13300</u>	
Gloss level: (EN ISO 2813: < 60 at 60°)	20 Satin
Opacity:	≥ 90 % (spreading rate 20m ² /l)
Whiteness:	≥ 85 %

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Wet Scrub Resistance: CLASS I
(EN ISO 11998: < 5 µm at 200 wash cycles)

Cleaning of tools:

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

Directions for use

1. Substrate

The substrate should be clean, dry and free of grease, dust and loose materials.

- Cracks or joints should be filled with ISOMASTIC-A sealant.
- Imperfections on concrete should be repaired with the polymer-modified mortar DUOCRET and on exposed concrete with the polymer-modified putty PLANFIX or PLANFIX-FINE.
- Plaster repairs are done with UNICRET or UNICRET-FAST ready-made mortars.

Priming with acrylic FLEX-PRIMER should follow, with consumption 100-200 g/m², depending on the absorbency of the substrate. FLEX-PRIMER is especially recommended for loose or crumbling plasters.

2. Application

ISOMAT FLEXCOAT is used as it is or thinned with water up to 5%. It should be thoroughly stirred before application. It is applied with roller, brush or airless spray in two layers. The second coat follows after first one has dried. In cases of severe, isolated cracks, ISOMAT FLEXCOAT may be reinforced along the crack with a 10 cm wide polyester fleece strip (30 g/m²).

In cases of multiple cracks, ISOMAT FLEXCOAT may be fully reinforced with the same polyester fleece, 100 cm wide.

Coverage

ISOMAT FLEXCOAT covers 12 m²/l, on previously prepared surfaces.

Packaging

ISOMAT FLEXCOAT is supplied in plastic buckets of 3 l and 10 l.

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 c, type WB is 40g/l (2010) for the ready-to-use product.

The ready-to-use product ISOMAT FLEXCOAT contains 30.73 g/l VOC.

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2032

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DoP No.: FLEXCOAT / 1423-03

EN 1504-2

Surface protection products

Coating

Permeability to CO₂: Sd > 50m

Water vapor permeability: Class I (permeable)

Capillary absorption: w < 0.1 kg/m²·h^{0.5}

Adhesion: ≥ 1.0 N/mm²

Artificial weathering: Passes

Dangerous substances comply with 5.3

ISOMAT S.A.

BUILDING CHEMICALS AND MORTARS

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The technical information and instructions supplied in this datasheet are based on the knowledge and experience of the Department of Research and Development of our company and on results from long-term applications of the product in practice. The recommendations and suggestions referring to the use of the product are provided without guarantee, since site conditions during the applications are beyond the control of our company. Therefore the user is responsible for confirming that the chosen product is suitable for the envisaged application. The present edition of this technical datasheet automatically cancels any previous one concerning the same product.





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