

ISOMAT FLEXCOAT

Premium, elastic, waterproofing paint

Description

ISOMAT FLEXCOAT is a premium, elastic, waterproofing paint based on 100% acrylic UV-cross-linking resins. Offers absolute water impermeability, protecting walls against rain damage. Features high elasticity and crack-bridging ability, making it ideal for surfaces prone to hairline cracks up to 1 mm. Maintains its elastic properties over a temperature range of -20°C up to +80°C. Being vapor-permeable, it allows building breathability, while preventing ingress of CO₂ and other aggressive agents. Provides excellent opacity and surface coverage, as well as strong adhesion to the substrate and outstanding resistance to weathering and UV radiation. The white is certified as cool paint. 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 a variety of new or old exterior surfaces, including render, exposed concrete, brickwork, asbestos cement, gypsum board, etc. Applicable also over bituminous coatings, bituminous membranes and polyurethane layers for 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 units, etc.

Technical data

Colors:	white and thousands of selected colors (ISOMAT COLOR SYSTEM)
Type:	100% acrylic paint
Flash point:	98°C
Volume solids:	50 ± 2 %
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 coat
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 > 50 m)	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:	-20°C – +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. to EN 13300</u>	
Gloss level: (EN ISO 2813: < 60 at 60°)	20, Matt
Opacity:	≥ 90% (spreading rate 20 m ² /l)
Whiteness:	≥ 85%
Wet Scrub Resistance: (EN ISO 11998: < 5 µm at 200 wash cycles)	CLASS 1



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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

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 in concrete should be repaired with the polymer-modified mortar DUROCRET and in exposed concrete with the polymer-modified powder filler PLANFIX or PLANFIX-FINE.
- Plaster repairs are carried out with UNICRET or UNICRET-FAST mortars.

Priming with acrylic FLEX-PRIMER should follow, with a consumption of 100-200 g/m², depending on substrate absorbency. FLEX-PRIMER is well-suited for stabilization of loose or crumbly plasters.

2. Application

ISOMAT FLEXCOAT is used as 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 coats. 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 8-12 m²/l per coat, 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 40 g/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: $w < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$
Adhesion: $\geq 1.0 \text{ N/mm}^2$
Dangerous substances comply with 5.3
Reaction to Fire: Class F

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