

ISOMAT SILICONE PAINT

Premium silicone paint for exterior use

Description

ISOMAT SILICONE PAINT is a premium matt silicone paint based on silicone acrylic resins. Features extremely high water-repellency and vapor permeability, as well as excellent opacity and surface coverage. Superior to conventional acrylic paints; it prevents water ingress and protects against mold growth, while allowing maximum breathability. Ideal for areas experiencing high humidity and extreme weather conditions. Recommended for restoration of historic and heritage buildings. Provides strong adhesion to any type of old or new substrate. Has excellent workability and flow. Delivers a flawless matt finish. 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 SILICONE PAINT is used on a variety of new or old exterior surfaces, including concrete, render, brickwork, gypsum board, asbestos cement, wood, etc.

Technical data

Colors:	white and selected colors (ISOMAT COLOR SYSTEM)
Type:	silicone-acrylic resins
Volume solids:	39 ± 2 %
Density:	1.45 ± 0.03 kg/l
Flash point:	98°C
Bond strength: (EN 1542)	≥ 2.4 N/mm ²
Viscosity (Poise):	14-18
pH: (EN ISO 2884- 2)	8-9.5 at +23°C
Dry film thickness: (EN ISO 2808)	39 ± 3 µm per layer (spreading rate 10 m ² /l)

Water vapor permeability: (EN ISO 7783:2011 V ₁ High, S _d < 0.14 m)	S _d = 0.11 ± 0.03 m
Capillary water absorption: (EN ISO 1062- 3: W ₃ low, w < 0.1 kg/m ² h ^{0.5})	0.03 ± 0.01 kg/m ² ·h ^{0.5}
CO ₂ permeability: (EN 1062-6 requirement: S _d >50m)	S _d = 165 ± 5 m
Total Solar Reflectance (TSR): (ASTM E903-96)	≥ 88%
Infrared Emittance coefficient: (ASTM C1371-04a)	≥ 0.87
Solar Reflectance Index (SRI): (ASTM E1980-01)	111
Artificial weathering: (EN 1062-11, after 2000 h)	Pass (no blistering, cracking or flaking)
Service temperature:	from -15°C to +80°C
Minimum application temperature:	+5°C
Reaction to fire: (EN 13501-1).	Euroclass F
Drying time: (EN ISO 9117)	1 h (touch dry)
Recoat time: (EN ISO 9117)	16 h
Gloss level: (EN ISO 2813)	< 10 at 85°
Opacity: (EN ISO 6504- 3)	≥ 97% (spreading rate 10 m ² /l)
Whiteness: (EN ISO 6504- 3)	≥ 85%
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.



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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 are filled with ISOMASTIC-A acrylic sealant.
- Any imperfections in concrete should be patched with DUROCRET polymer-modified mortar and in exposed concrete, with PLANFIX or PLANFIX-FINE polymer-modified powder fillers.
- Plastered wall may be patched with UNICRET and UNICRET-FAST mortars.

The substrate is then primed with the silicone-acrylic, micronized, water-based primer PRIMER ACRYL, thinned up to 50% with clean water or with acrylic solvent-based primer PRIMER ACRYL-S, thinned up to 100% with SM-21 by ISOMAT or with WHITE SPIRIT. These primers are also ideal to use for stabilization of loose or crumbly surfaces.

2. Application

Before use, ISOMAT SILICONE PAINT should be thoroughly stirred and applied as is or thinned by 5-10% with clean water. Two coats of ISOMAT SILICONE PAINT are applied with a roller, brush or airless spray. The second coat is applied after the first one has completely dried. Temperature during application and drying of the paint should range between +10°C and +35°C.

Coverage

ISOMAT SILICONE PAINT covers approx. 12 m²/l per coat, on previously prepared surfaces.

Packaging

ISOMAT SILICONE PAINT is available in 3 l and 10 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 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 SILICONE PAINT contains 3 g/l VOC.

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2032

ISOMAT S.A.

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DoP No.: ISOMAT SILICONE / 1424-03

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

ISOMAT S.A.

BUILDING CHEMICALS AND MORTARS

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