

Technical Datasheet

ISOMAT SILICONE PAINT

Premium silicone paint for exterior use

Description

ISOMAT SILICONE PAINT is a premium matt silicone paint for exterior use, based on 100% silicone acrylic resins. Features extremely high water-repellency and vapor permeability, as well as excellent surface coverage and opacity. It is superior to any conventional acrylic paint surpassing them in waterproofing ability, thus protecting the surface from mold while allowing maximum breathability. Ideal for areas with high humidity and harsh weather conditions. Recommended for the restoration of historic and traditional buildings. Provides strong adhesion to any kind of old or new substrate. Has excellent workability and quick-drying time. Offers a beautiful matt finish.

Fields of application

ISOMAT SILICONE PAINT is used for indoor or outdoor applications, on new or old surfaces, on substrates such as concrete, plaster, bricks, gypsum boards, asbestos cement, wood, etc.

Technical data

Colors:	white and selected colors (ISOMAT COLOR SYSTEM)
Type:	silicone-acrylic resins
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
Volume solids: (EN ISO 2808).	39±3 %
Dry film thickness: (EN ISO 2808)	39±3 µm per layer (spreading rate 10m ² /l)
Total Solar Reflectance (TSR): (ASTM E903-96)	≥ 88%

Infrared Emittance coefficient: (ASTM C1371-04a)	≥ 0.87
Solar Reflectance Index (SRI): (ASTM E1980-01)	111
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
Artificial weathering: (no blistering, cracking or flaking) (EN 1062-11 after 2000 h)	Pass
Temperature resistance:	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
<u>Measurements acc. EN 13300</u>	
Gloss level: (EN ISO 2813: < 10 at 85°)	Matt
Opacity:	≥ 97% (spreading rate 10m ² /l)
Whiteness:	≥ 85%
Wet Scrub Resistance: (EN ISO 11998:<5µm at 200 wash cycles)	CLASS I
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 on concrete should be patched with DUROCRET polymer-modified mortar and on exposed concrete, with PLANFIX or PLANFIX-FINE polymer-modified putties.
- Plastered wall may be patched with UNICRET and UNICRET-FAST premixed 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 primer PRIMER ACRYL-S, thinned up to 100% with SM-18 of ISOMAT or with WHITE SPIRIT. These primers are also ideal to use for the stabilization of the surface, when the primer is loose or crumbly.

2. Application

Before use, gently stir the content and apply it as it is or thinned 5-10% with clean water. Two coats of ISOMAT SILICONE PAINT are applied with a roller, brush or airless gun. 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 10-12 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 a maximum of 3 g/l VOC.



2032

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

Artificial weathering: Passes

Dangerous substances comply with 5.3

ISOMAT S.A.

BUILDING CHEMICALS AND MORTARS

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