

Technical Datasheet

MARMOCRYL SILICONE Fine

Silicone, ready-to-use, exceptionally water-repellent and vapor-permeable render – Smooth finish

Description

MARMOCRYL SILICONE Fine is a pasty, white or colored, silicone-acrylic render consisting of aggregates of special particle size distribution to deliver a smooth decorative finish. It offers the following benefits:

- High elasticity and excellent adhesion to the substrate.
- Total water-repellency according to EN 1062-3.
- Excellent vapor permeability.
- No need for facade painting.
- Resistance to alkalis, according to DIN 18556.
- Crack prevention, unlike traditional cement-lime renders.
- Simple, faster application.
- Suitability for both indoor and outdoor use.

Certified according to EN 15824:2017. CE marked. MARMOCRYL SILICONE Fine has received an Environmental Product Declaration (EPD) following an assessment of its life-cycle environmental impacts. Registration No: S-P-09188, The International EPD® System.

Fields of application

MARMOCRYL SILICONE Fine is used as a thin-coat render delivering a white or colored, water-repellent smooth finish. Applicable to all building materials including render, concrete, cement boards, gypsum boards, etc. Suitable for interior and exterior wall surfaces. It replaces the final coat in a rendering system.

Thanks to its high elasticity and excellent adhesion to the substrate, it is the ideal final coat in external thermal insulation systems.

Technical data

Form:	pasty
Colors:	white and selected (ISOMAT COLOR SYSTEM)
Density:	1.80 ± 0.03 kg/l
Water vapor permeability:	V1 (EN ISO 7783-2, V1: High Sd<0.14m)

Water permeability (EN 1062-3, W3: Low w< 0.1 kg/m ² h ^{0.5})	W3
Adhesion: (EN 1542)	0.4 MPa
Thermal conductivity (EN 1745)	λ=0.7 W/(m K)
Reaction to fire	Euroclass B-s2,d0
Drying time:	4-6 h (23°C, 50% R.H.)

Cleaning of tools:

Tools should be cleaned with water, after use.

Available types

Depending on particle size, MARMOCRYL SILICONE Fine is available in the following types:

Type	Application thickness
MARMOCRYL SILICONE Fine 1 mm	~ 1mm
MARMOCRYL SILICONE Fine 1.5 mm	~ 1.5mm
MARMOCRYL SILICONE Fine 2 mm	~ 2mm

Consumption

Approx. 1.8 kg/m²/mm.

Directions for use

1. Substrate preparation

The substrate must be dry and free of dust, oil or grease loose materials, etc. It is then primed with SILICONE-PRIMER or ML-PRIMER. Smooth or non-absorbent surfaces should be primed with PL-BOND. MARMOCRYL SILICONE Fine is applied after the primer has dried.

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2. Application

MARMOCRYL SILICONE Fine should be thoroughly stirred before application with slow circular motions, to avoid creating bubbles in the mass of the material. The render is applied by hand, using a smooth, stainless metal trowel, or with a rendering machine.

While still fresh (5-20 min after its application), the render is treated (pressed) with a plastic spatula. Working time depends on substrate absorbency and ambient temperature.

Packaging

MARMOCRYL SILICONE Fine is supplied in 25 kg plastic containers.

Shelf life – Storage

18 months from production date, if stored in original, unopened packaging, at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.

Remarks

- The natural aggregates used in the render can cause slight differences in color. For this reason and in order to achieve uniform color result, it is recommended the products to come from the same batch or to mix products from different batches. Moreover, the final color may be affected by substrate temperature and humidity.
- Temperature during application should be between +5°C to +35°C.
- MARMOCRYL SILICONE Fine while it is still fresh should be protected from high temperatures, rain and frost.
- Consult the directions for safe use and precautions written on the packaging before use.

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 MARMOCRYL SILICONE Fine contains a maximum of 40g/l VOC.



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11

EN 15824

External render based on organic binder

DoP No.: MARMOCRYL SILICONE FINE/
1405-02

Water vapor permeability: V1

Water absorption: W3

Adhesion: 0.4 MPa

Durability: NPd

Thermal conductivity: $\lambda = 0.7 \text{ W/(m K)}$

Reaction to fire: Euroclass B-s2,d0

ISOMAT S.A.

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