

MARMOCRYL

SILICONE-SILICATE Fine

Silicone-Silicate, pasty, ready-to-use render

Smooth finish • White or colored • Water-repellent

Description

MARMOCRYL SILICONE-SILICATE Fine is a ready-to-use, pasty, white or colored silicate render with special silicone additives. It consists of aggregates of special particle size that form a smooth decorative surface. It offers the following benefits:

- High elasticity and excellent bonding to the substrate.
- Water-repellency.
- Excellent vapor permeability and thus maximum breathing of the building.
- No need for facade painting.
- Resistance to alkalis, according to DIN 18556.
- Crack prevention, unlike ordinary cement-lime renders.
- Simplified and fast application.
- Suitability for interior and exterior application.

Certified with the CE marking, according to EN 15824.

Fields of application

MARMOCRYL SILICONE-SILICATE Fine is used as the finishing coat of rendering works, in order to create a white or colored, water-repellent smooth finish surface (thin layer). It can be applied on all kinds of building materials, like render, concrete, cement boards, gypsum boards, etc. It is suitable for exterior and interior applications and replaces the final render coat.

Due to its high elasticity and excellent bonding to the substrate, it is also an ideal final layer for external, thermally insulated facades.

Technical data

Form:	pasty
Colors:	white and 1024 selected color (ISOMAT COLOR SYSTEM)
Density:	1.80 ± 0.03 kg/l
Water vapor permeability: (EN ISO 7783-2, V1: High Sd<0.14m)	V1
Water permeability (EN 1062-3, W2: Medium 0.1<w< 0.5 kg/m ² h ^{0.5})	W2
Adhesion: (EN 1542)	0.4 MPa
Thermal conductivity (EN 1745)	λ=0.7 W/(m · K)
Reaction to fire (EN 13501-1)	Euroclass C
Drying time:	4-6 h (23°C and 50% R.H.)

Cleaning of tools:

Tools should be cleaned with water, immediately after use.

Available Types

Depending on the particle size of aggregates, MARMOCRYL SILICONE-SILICATE Fine is available in the following types:

MARMOCRYL

SILICONE-SILICATE Fine

Type	Thickness of application
MARMOCRYL SILICONE-SILICATE Fine 1 mm	approx. 1 mm
MARMOCRYL SILICONE-SILICATE Fine 1.5 mm	approx. 1.5 mm
MARMOCRYL SILICONE-SILICATE Fine 2 mm	approx. 2 mm

Consumption

Approx. 1.8 kg/m²/mm of render thickness.

Directions for use

1. Substrate preparation

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

2. Application

MARMOCRYL SILICONE-SILICATE Fine should be thoroughly stirred before application. This should be done with slow circular movements 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, the render is treated (pressed) with a plastic trowel. Working time depends on the substrate absorptivity and ambient temperature.

Packaging

MARMOCRYL SILICONE-SILICATE 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 sun exposure and frost.

Remarks

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

Volatile Organic Compounds (VOCs)

According to the 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.

MARMOCRYL

SILICONE-SILICATE Fine

The ready-to-use product MARMOCRYL SILICONE-SILICATE Fine contains a maximum of 40 g/l VOC.



ISOMAT S.A.

17th km Thessaloniki – Ag. Athanasios
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece

13

EN 15824

External render based on organic binder

DoP No.: MARMOCRYL SILICONE – SILICATE
FINE / 1412-03

Water vapor permeability: V1

Water absorption: W2

Adhesion: 0.4 MPa

Durability: NPD

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

Reaction to fire: Euroclass C

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.



MARMOCRYL

SILICONE-SILICATE Decor

Silicone-Silicate, pasty, ready-to-use render

Coarse-textured finish • White or colored • Water-repellent

Description

MARMOCRYL SILICONE-SILICATE Decor is a ready-to-use, pasty, white or colored, silicate render with special silicone additives. It consists of aggregates of special particle size that form a coarse-textured decorative surface. It offers the following benefits:

- High elasticity and excellent bonding to the substrate.
- The potential to create different, coarse-textured decorative surfaces, depending on the way of rubbing.
- Water-repellency.
- Excellent vapor permeability and thus maximum breathing of the building.
- No need for facade painting.
- Resistance to alkalis, according to DIN 18556.
- Crack prevention, unlike ordinary cement-lime renders.
- Simplified, fast application.
- Suitability for both interior and exterior applications.

Certified with the CE marking, according to EN 15824.

Fields of application

MARMOCRYL SILICONE-SILICATE Decor is used as the finishing coat of rendering works, in order to create a white or colored, water-repellent coarse-textured finish surface (thin layer). It can be applied on all kinds of building materials, like render, concrete, cement boards, gypsum boards etc. It is suitable for exterior and interior applications and replaces the final render coat.

Due to its high elasticity and excellent bonding to the substrate, it is also an ideal final layer for external, thermally insulated facades.

Technical data

Form:	pasty
Colors:	white and 1024 selected colors (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	W2 (EN 1062-3, W2: Medium 0.1<w< 0.5 kg/m ² h ^{0.5})
Adhesion:	0.4 MPa (EN 1542)
Thermal conductivity:	λ=0.7 W/(m · K) (EN 1745)
Reaction to fire:	Euroclass C
Drying time:	4-6 h (23°C and 50% R.H.)

Cleaning of tools:
Tools should be cleaned with water, immediately after use.

Available Types

Depending on the particle size of aggregates, MARMOCRYL SILICONE-SILICATE Decor is available in the following types:

Type	Thickness of application
MARMOCRYL SILICONE-SILICATE Decor 2 mm	approx. 2 mm
MARMOCRYL SILICONE-SILICATE Decor 3 mm	approx. 3 mm

MARMOCRYL

SILICONE-SILICATE Decor



Consumption

Approx. 1.6 kg/m²/mm of render thickness.

Directions for use

1. Substrate preparation

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

2. Application

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

While still fresh, the render is treated (pressed) with a plastic float, in horizontal, vertical, or circular movements, depending on the desired final appearance of the surface.

Working time depends on the substrate absorptivity and ambient temperature.

Packaging

MARMOCRYL SILICONE-SILICATE Decor 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 sun exposure and frost.

Remarks

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

Volatile Organic Compounds (VOCs)

According to the 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 MARMOCRYL SILICONE-SILICATE Decor contains a maximum of 40 g/l VOC.



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EN 15824

External render based on organic binder

DoP No.: MARMOCRYL SILICONE – SILICATE

DECOR / 1413-03

Water vapor permeability: V1

Water absorption: W2

Adhesion: 0.4 MPa

Durability: NPD

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

Reaction to fire: Euroclass C

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