

MARMOCRYL FR Fine

Ready-to-use acrylic render with high fire resistance – Smooth finish

Description

MARMOCRYL FR Fine is a pasty, white or colored, acrylic finish render, specifically designed to achieve optimized fire protection. It consists of aggregates with special particle size distribution delivering a smooth decorative finish. It offers the following benefits:

- High elasticity and excellent adhesion to the substrate.
- Reaction to fire class A2-s1,d0 in accordance with EN 13501-1.
- High 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.
- Suitable for indoor and outdoor applications.

Certified according to EN 15824: 2017. CE marked. MARMOCRYL FR Fine has received an Environmental Product Declaration (EPD) following an assessment of its life-cycle environmental impacts. Registration No: EPD-IES-0009187, The International EPD® System.

Fields of application

MARMOCRYL FR Fine is intended for use as a thin-coat render on interior and exterior wall surfaces made of all types of building materials, including render, concrete, cement board, gypsum board, etc. It replaces the final coat in a rendering system and is the optimal solution for those applications where excellent fire performance is critical consideration. Thanks to its high elasticity and excellent adhesion to the substrate, MARMOCRYL FR Fine is the ideal final coat in external thermal insulation systems.

Technical data

Form:	pasty
Colors:	white and selected colors (ISOMAT COLOR SYSTEM color chart)
Density:	1.82 ± 0.05 kg/l

Water vapor permeability: V2
(EN ISO 7783-2, V2: Medium
 $0.14 \leq S_d < 1.4 \text{ m}$)

Water permeability W3
(EN 1062-3, W3: Low $w < 0.1 \text{ kg/m}^2\text{h}^{0.5}$)

Adhesion: $\geq 1.0 \text{ MPa}$
(EN 1542)

Thermal conductivity $\lambda = 0.7 \text{ W/(m K)}$
(EN 1745)

Reaction to fire Euroclass A2-s1,d0

Drying time: 4-6 h
(23°C, 50% R.H.)

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

Available types

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

Type	Application thickness
MARMOCRYL FR Fine 1 mm	~ 1 mm
MARMOCRYL FR Fine 1.5 mm	~ 1.5 mm

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 FLEX-PRIMER or ML-PRIMER. Smooth or non-absorbent surfaces should be primed with PL-BOND. MARMOCRYL FR Fine is applied after the primer has dried.

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2. Application

MARMOCRYL FR Fine should be thoroughly stirred before application. Stirring should be done with slow circular motions to prevent bubble formation in the mass of the material. The render is applied by hand, using a smooth stainless steel trowel, or with a rendering machine.

While still fresh (5-15 min after its application), the render is treated (pressed) with a plastic float. Working time depends on substrate absorbency and ambient temperature.

Packaging

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 aggregate 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 substrate temperature and humidity
- Temperature during application should be between +5°C to +35°C.
- While still fresh, MARMOCRYL FR Fine 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 40 g/l (2010) for the ready-to-use product.

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



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EN 15824

External render based on organic binder

DoP No.: MARMOCRYL FR FINE/1442-01

Water vapor permeability: V2

Water absorption: W3

Adhesion: ≥ 1.0 MPa

Durability: NPD

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

Reaction to fire: Euroclass A2-s1,d0

ISOMAT S.A.

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