

MARMORIN HYDRO



Green
Building
Council
Italia

EPD[®]
THE INTERNATIONAL EPD[®] SYSTEM



FINISHES



PRODUCT DESCRIPTION

Description

Pure slaked lime smooth marmorino with special hydrophobic additives that give the product top water repellent properties.

Intended use

Indoor/Outdoor

- Homogeneous, absorbent, seasoned, new or old lime or gauged mortar-based mineral substrates

Main features



- Slaked lime and marble flour-based smooth marmorino containing hydrophobic additives and adhesion agents
- Compact, homogeneous and breathable structure
- Prestigious finish particularly suitable for interiors
- Matt marbled effect
- High water vapour permeability
- Shaded appearance with chiaroscuro effects and haloing
- Natural anti-mould
- This finish is especially suitable for thick decoration works, reminiscent of the smooth matt stone effect
- Formula A+

Main technical data

Technical information	Method	Main data at 20°C and 60% of R.H.
Theoretical consumption for two coats		2 ÷ 2.5 kg/ m ²
Diffusion of WDD water vapour (film thickness 1000 microns dry)	ISO 7783-2	>150 g/ m ² in 24 h
SD water diffusion resistance (film thickness 1000 microns dry)	ISO 7783-2	0.0119 m

Reaction to fire	UNI EN 13501-1	A2-s1, d0
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Available colours

White and other colours achievable with the tintometric system. For colour selection, refer to the Color Collection Marmorini chart

LAYING

Dilution and preparation of the product

The product is ready to use, mix properly with a mechanical mixer until it reaches the correct density.

Warning: as it is a lime product, it naturally tends to thicken; mixing is therefore recommended for proper applicability.

Application tools

- Stainless steel spatula

Preparation of the substrate (external and internal)

NEW WALL SURFACES

Concrete, plasterboard and cement-based plasters: make sure that the substrate is perfectly seasoned; always apply at least one coat of MULTIQUARTZ base coat to regulate absorption and wait for it to dry completely. Alternatively, if greater adhesion is required, it will be possible to apply a coat of VIEROGRIP PLUS and wait 24h before applying the decorative finish.

OLD SURFACES ALREADY PAINTED OR PARTIALLY DEGRADED

In case of dirt and mould, before carrying out any operation, it is necessary to perform a treatment with specific anti-mould sanitising products, taking care to leave them to act before carrying out a suitable cleaning.

Carry out a careful scraping (mechanical or manual) in order to remove every element that is detaching or in any case is not perfectly cohesive and anchored to the substrate; assess if the complete removal of old paint is necessary.

In case of dusting and chalking of external surfaces, it is necessary to apply a coat of PRYMER SE consolidating solvent-based fixative or of PRYMER ACQ 100 high penetration water-based acrylic fixative, and wait 24h. Then proceed to apply the base paint which can be MULTIQUARTZ or VIEROGRIP PLUS depending on the uniformity and filling required and wait 24 hours before applying the decorative finish.

In case of dusting and chalking of internal surfaces, apply a coat of PRYMER ACQ water-based acrylic fixative and wait at least 6-8 h. Then proceed to apply the base paint which can be MULTIQUARTZ or VIEROGRIP PLUS depending on the uniformity and filling required and wait 24 hours before applying the decorative finish.

WALL SURFACES WITH LIME PLASTER OR CEMENT-LIME MORTAR

In case of dusting and chalking, it is necessary to apply a coat of SILICA FONDO SD; after 24h proceed to apply a coat of VIEROGRIP PLUS and wait at least another 24h before applying the decorative finish.

In the case of a cohesive and anchored mineral substrate, it will be sufficient to wet the surfaces with water and to proceed to apply the decorative finish.

Application system

Stir vigorously and apply at least two even coats of MARMORIN HYDRO using a stainless steel spatula.

Use a stainless steel trowel to apply two hands of product with crossed movements, allowing 24 hours between the two coats. When the product starts to dry, smooth the surface with the steel trowel inclined at 45°, until the desired polished effect is obtained.

When completely dried, that is about 3 days after application, it is possible to sand the surface using a rotor-orbital polisher fitted with 240-320 gram paper, to obtain an especially smooth aesthetic effect. The product hardens in about 24 hours but reaches its maximum characteristics after the first few weeks of seasoning.

If the product is to be applied in very humid environments, such as bathrooms, showers, etc. where greater water-repellency is required, AQUA BASE and AQUA PROTECTION must also be applied, following the instructions provided in the relevant technical sheet.

- Touch dry: 3-4 h
- Dry in depth: 24 h
- Overcoatability: after 12-24 hours

Complete seasoning takes place in 2-4 weeks (60-70% of the lime); the complete process takes 8-12 months.

Conditions of application

- Relative humidity of the environment: <75%
- Ambient temperature: min. +5°C / max. +35°C
- Substrate temperature min. +5°C / max. +35°C
- Apply on homogeneous substrates, complete the walls without stopping, avoid the recovery of material that is now dry
- Do not apply on substrates with rising damp
- Avoid application of the product in direct sun or on particularly windy days

Practical advice

- Avoid application of the product in direct sun or on particularly windy days
- In the case of very large surfaces, provide for suitable interruptions near drainpipes or technical joints
- Store the product in its original container at a temperature between +5°C and +30°C
- Faint hues and shading of the colour (lighter and darker) are an aesthetic characteristic, typical of the product
- Due to the natural composition of the product, the final shade will be affected by climatic conditions and by the plaster absorption rates
- After application, the surfaces must be protected from driving rain for at least 48 hours
- Apply a single batch on the same side or request a continuing batch
- With the construction site in progress, to limit the visibility of interruptions, consider proceeding along the wall with diagonal rather than vertical work sequences

- Given the natural composition of the product, the final colour will have a shaded appearance with chiaroscuro effect and haloing depending on the different absorption of the plasters, on the climatic conditions and the application methods
- New plasters must be evenly seasoned, brand new patches must be allowed to mature perfectly

Known incompatibilities

The product cannot be applied to wooden substrates.
In the case of surfaces already painted with synthetic paints and plaster substrates, apply suitable primers, such as PRYMER ACQ fixative and MULTIQUARTZ base coat.
For any use other than that indicated in this technical data sheet, contact our Technical Assistance Service.

Cleaning of tools

With water immediately after use.

Safety Precautions

- The product is very alkaline. Protect your eyes during use and in case of contact wash thoroughly with water and consult your doctor
- Keep the container tightly closed after use, away from heat sources, away from frost and direct sunlight
- The safety information for the user is contained in the relevant safety data sheet
- Empty containers or containers with slight traces of dried film of residual product must be disposed of in compliance with local regulations

Warnings

- The final shade of the applied product depends on the porosity and absorption of the substrate, as well as on the thicknesses applied
- We advise to check the colour after the plaster has completely dried
- Faint hues and shading of the colour (lighter and darker) are an aesthetic characteristic, typical of the product
- Due to the natural composition of the product, the final shade will be affected by climatic conditions and by the plaster absorption rates
- As it is a natural product, the mixture may contain undercooked or not hydrated limestone fragments

OTHER INFORMATION

Classification (UNI EN 1062-1)

G3 E5 S3 V1 W1 A0 C0

VOC classification (Directive 2004/42/EC)

Opaque paints for indoor walls and ceilings.
EU VOC limit value for MARMORIN HYDRO (cat. A/a): 30 g/L (2010).
MARMORIN HYDRO contains a maximum of 30 g/L of VOC.

Other technical information

Technical information	Method	Main data at 20°C and 60% of R.H.
Density	ISO 2811-1	approx. 1.550 g/ml

Brookfield viscosity	ASTM D 2196	approx. 52500 cps Paste
Flash point	UNI 8909	Non-flammable
Storage life	UNI 10154	At least 12 months
Binder		Slaked lime
Vapour permeability	ISO 7783-2	V1
Water absorption	UNI EN 1062-3	W1

SECTION LEED

The Marmorin Hydro Product can contribute to the final score of buildings that apply the LEED version 4.1 standards, contributing to the following credits::

MR Building Product Disclosure and Optimizations: Environmental Product Declaration

EPD TYPE	PROGRAM OPERATOR	NUMBER
Standard	EPD International AB	EPD-IES-0016371:002

MR Building Product Disclosure and Optimizations: Material Ingredient Optimization

MATERIAL INGREDIENT OPTIMIZATION	DECLARATION
International Alternative Compliance Path - Reach Optimization	Substance SVHC < 100 ppm

ITEM SPECIFICATIONS

Application of MARMORIN HYDRO, matt finish with marbled stone effect.

Slaked lime-based MARMORIN HYDRO - in the colour chosen by the P.M. - is a smooth finish that can be applied using a stainless steel spatula.

Two/three coats must be applied on walls of a mineral nature that have never been painted or on walls that have been painted with mineral products or suitably prepared with a mineral primer. Indicative consumption per coat 3÷3.5 Kg/m².

Price on site € _____ per m² including materials, labour, and excluding scaffolding, protections and any surface preparation.

All the technical indications contained herein are the result of our best experience, are indicative and do not constitute a guarantee of results. The data and methods shown on this technical data sheet can be modified at any time depending on any change in production technologies. The application of the products takes place outside our control and therefore falls under the sole responsibility of the customer. The correct use of the materials assumes compliance with the general requirements for use set out in the GENERAL CONSIDERATIONS page of the PRODUCT INFORMATION SHEETS collection and in particular with what is indicated in this sheet, especially with regard to the preparation and suitability of the supports. The technical service of Cromology Italia spa is available to users to provide additional information to that reported here. THIS DATA SHEET REPEALS AND REPLACES ANY PREVIOUS EDITION.

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