



arteMURI® MARMORINO NATURALE



Mineral marmorino based on slaked lime.



Product description and fields of use

MARMORINO NATURALE is a mineral decorative finishing based on slaked lime and selected mineral inerts.

MARMORINO NATURALE is indicated as decorative finishing with marmorino effect, with characteristic chromatic shades, on plasters based on hydraulic lime binder, premixed and traditional, fine finishing, of new and old constructions. It has very good breathability and resistance to moulds and bacteria. The inorganic composition and the filling capacity make the product suitable as ideal finishing in restoration of historical centres and in eco building. The slaked lime (calcium hydroxide), after application, reacts with the carbon dioxide in the air producing, through a carbonation reaction, calcium carbonate that is chemically binding itself to the plaster, the last one also based on lime. Due to the actual environmental pollution, the application onto exterior walls does not guarantee an adequate duration and protection of the product; therefore it is advised to use it only onto buildings which are not strongly exposed or which particularly require the use of a mineral finish based on slaked lime.

MARMORINO NATURALE may be tinted with the arteMURI tintometric system.

Advantages

- decorative mineral finishing
- easy application and good workability
- resistant to moulds and bacteria
- excellent breathability

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

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Technical specifications

Wall surfaces, such as plasters based on hydraulic lime binder, premixed and traditional, may be finished with the mineral intonachino MARMORINO NATURALE from Fornaci Calce Grigolin, product based on slaked lime, synthetic resins, siliceous fillers of various grain sizes and light resistant pigments.

Consumption and packaging

MARMORINO NATURALE is supplied in 25 kg buckets.

The consumption at finished job varies from a minimum of 1,8 kg/m² till a maximum of 2,2 kg/m², in two coats.

Rules on conservation

Freeze sensitive. Store at temperatures between +5°C and +40°C in original sealed containers.

Under these conditions, the life of stored product is at least one year.

Being a product of mineral nature, slight densification may occur without compromising the quality and the use of the product. In such cases shortly mix the product. It is anyhow advised to use within in short time.

Surface preparation

New walls or eventual recovery (patches) must be seasoned from at least 4 weeks, dry and clean.

Old walls must be consistent, salt efflorescence free and without poorly adhering parts, accurately clean according to intensity and nature of the dirt accumulated on the surface to be treated.

To level and plaster imperfections such as holes, cracks or crannies, intervene first with the proper restoration product or mortar. The presence of moulds or algae on the surface should be treated with the SEI KO detergent and sanitized with SEI OK repairer.

On surfaces already painted with lime based paints, completely remove the falling, not fully adhering and degrading paint.

Lime based products must not be applied on cement, plaster, plasterboard, wood, metal surfaces and surfaces already tinted with film forming paint, because in these cases there would be no chemical reaction with the surface, and consequently no adhesion.

Surface treatment

New plasters: apply directly. It is possible to wet the surface with water to slow down the drying effect in hot seasons. In case of particularly absorbent plasters, apply one coat of silicate product F4 SIL.

Plasters with mineral paints (lime or silicates): apply one coat of silicate product F4 SIL.

Plasters with synthetic paints (acrylic, siloxane): NOT SUITABLE.

Cement/concrete/fibrecement: NOT SUITABLE.

New gypsum/plasterboard: apply one coat of PRIME GRUND 0.3.

Gypsum/plasterboard painted with tempera: remove completely, then apply one coat of PRIME GRUND 0.3.

Gypsum/Plasterboard painted with washables: apply one coat of PRIME GRUND 0.3.

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Product preparation

MARMORINO NATURALE is ready to use.

If necessary, dilute with little water till the desired consistency mixing slowly the product in its bucket with a mechanical mixer.

Application

Apply the first coat with stainless steel float, leaving as less imperfections as possible. After drying at least 16-24 hours, apply a second coat with stainless steel inox float of 20 cm, with short spatula, overlapped and crossed. During product essication, proceed carefully to smooth the surface by repeatedly polishing it with the rounded edges of the stainless steel clean float, till you obtain a compact and polished coating. Eventual job interruptions must coincide with structural particulars (stringcourses, edges, etc.). The necessary material for the job execution must be all of the same lot. Avoid absolutely different lots on the same surface and finish the area with one single lot, to start then on the building wall edge with the following lot. However, due to the mineral nature of the product, the colour tone obtained depends strongly from the atmospheric conditions, from the uniformity of the thickness and from the surface absorption: a same lot could have different tones. Wash immediately with water the tools and the equipment after use.

Important warnings

Do not apply when ambient or surface temperature is below +5°C or above +35°C and with relative humidity superior to 75%. Avoid application with superficial condensation, under direct sunlight or strong wind. The adhesion of the product to the surface is not guaranteed when done on surfaces with salt efflorescence, therefore it is necessary a previous treatment of the wall.

Special warnings

Respect the required application climate conditions as above indicated. In unfavourable climate conditions, there could be fast "carbonation" with the consequent formation of unaesthetics superficial withish stains of calcium carbonate, particularly evident in case of medium-dark colours. It is strongly advised to not apply in exterior with low temperatures, high humidity, excessive heat and wind. Since the calcium carbonate stains could appear even after 8-10 days, it is advised to protect the surface for as long as possible.

Safety instructions

The product is highly alkaline: during use wear goggles and gloves. Avoid skin and eye contact and in case of contact wash immediately and abundantly with water.

Use the products according to existing standards of hygiene and safety.

After use, do not disperse the containers into the environment.

Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

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TECHNICAL DATA	PERFORMANCE
Binder type	aged slaked lime and binders in water dispersion
Appearance	dense granular/pigmented paste
Specific weight (UNI EN ISO 2811-1) 25°C±2	1870 ± 20 g/l
Brookfield viscosity (ASTM D2196) 25°C±2	100.000 ± 20.000 cP
Water vapor permeability and classification (UNI EN ISO 7783-2)	V = 338 g/m ² 24h Class I (high permeability)
Equivalent air layer thickness (UNI EN ISO 7783-2)	Sd = 0,062 m
Vapor Permeability μ	ca. 40
Liquid water permeability and classification (UNI EN 1062-3)	w24 = 0,38 kg/m ² h ^{0,5} Class II (medium permeability)
Suitable for facade protection as it complies with the KÜNZLE theory (DIN 18550) where w24 < 0,5 kg/m ² h ^{0,5} and Sd < 2 m	Sd · w24 = 0,024 kg/m h ^{0,5}
VOC content (DIR. 2004/42/EC)	Paint for exterior walls of mineral substrate. EU limit values for subcategory c, type BA 40 g/l (2010) This product contains a maximum of 40 g/l of VOCs.
Application	Steel, plastic and/or sponge flask
Overpainting	16-24 hours

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