

Technical qualities

ARGILLA MATERICA: a decorative material paint based on lime with added clay. It offers a natural finish that provides unique textures and a sophisticated aesthetic. Extremely malleable and easy to apply, the clay enhances plasticity and workability while delivering warm color shades. It allows for the creation of unique textures and artistic forms with significant thickness, maintaining a soft and refined appearance that is pleasing both to the touch and to the eye. An elegant fusion of raw lime and clay gives a natural, soft, and perfectly matte aesthetic, resulting in an authentically material finish that provides high breathability in environments, allowing for moisture exchange and preventing condensation and mold. Additionally, its alkaline nature protects against mold and bacteria. The natural properties of clay improve thermal and acoustic conditions in the environment, contributing to overall comfort. It is particularly suitable for the restoration of historic buildings, eco-friendly homes, and interiors that require a healthy and natural environment. With ARGILLA MATERICA, the beauty of nature takes shape, fully respecting the well-being of people and spaces.

Ideal use

Decoration for interior walls.

Surface preparation

The surfaces must be well-dried and seasoned; thoroughly brush or strip the surface to remove any peeling parts. If strictly necessary, it is possible to use appropriately diluted CONSOLIDANTE CALCE to consolidate highly absorbent or friable surfaces. Low-absorbency paints should be sanded to make them porous and enhance adhesion.

Attention: the walls must be uniform in both grain size and absorption; if necessary, level the wall with RASATURA ALLA CALCE or leveling putty. Apply the PRIMER or BLANKOR as a base product.

Application method

Calce Cruda Effect: begin by applying a thin first coat of ARGILLA MATERICA to the surface using an Oikos Spola (art. 113) to create a base for further processing. After the first coat has dried, load some ARGILLA MATERICA onto the Oikos Spatola (art. 113) and dab the surface, leaving uneven patches of material. Immediately compact the surface with the stainless steel spatula, without adding more product, to achieve a smooth surface with void areas.

Geometrico Effect: the application is done by choosing a toothed spatula of the desired size. If a wide-toothed spatula is chosen, ARGILLA MATERICA can be directly applied to the wall with the same spatula. If a spatula with smaller teeth like the Oikos Spatola Dentata (art. A01)

Application

Dilution	Ready to use
Yield	CALCE CRUDA / GEOMETRICO EFFECT 1-1,5 Kg/m ² GRAFFIATO EFFECT 1,9-2,3 Kg/m ² SPATOLATO/NATURALE EFFECT 2,2-2,7 Kg/m ² WARNING: the yield can vary considerably based on the thicknesses applied.
Tools	Spatola Oikos (art.113), Guanto in Spugna (art. 115), Tampone Millerighe Oikos (art. 133), Spatola Dentata Oikos (art. A01)
Primer	II Primer, Blankor
Protective	Betoncryll Idrorepellente
Application temperature	+5°C ÷ +36°C (with relative humidity not exceeding 80%)
Touch drying time	2,30 h (temperature = 20°C with 75% relative humidity)
Total drying time	24 h (temperature = 20°C with relative humidity at 75%) ATTENTION: the times indicated vary according to the thickness applied
Tool cleaning	Water

Product

Composition	Clay, Lime putty, fillers, titanium dioxide, coloured pigments.
Specific weight	1,5 kg/l
Grain size	Max=0,2 mm
PH	12,5 ÷ 13,5
Storage temperature	+2°C ÷ +36°C. Keep from freezing
Permeability to water vapour	Class V ₁ (High Permeability), Sd=0,0185 m (EN ISO 7783-2:2001)
Direct tensile adhesion	f _n = 0,9 MPA (min. f _n > 0,3 MPA) f _n > 0,3 MPA (EN 1542:2000)
Durability	f _n = 0,4 MPA (min. f _n > 0,3 MPA) f _n > 0,3 MPA (EN 13687-3:2003)
Thermal conductivity	λ _{10, dry} = 0,36 W/mK (P=90%) (EN 1745:2005)
Volatile Organic Compounds (VOC) emission limit, according to Directive 2004/42/EC	Classification: A/a; VOC: < 1 g/l, Phase II limit (dal 1.1.2010): 30 g/l
Colours	White + chart tints
Packaging	Kg 5 – 20

is selected, the product should first be evenly spread on the wall with a regular spatula, and then worked with the toothed spatula to create parallel lines. It is advisable to use a tinted primer.

Graffiato Effect: apply a coat of TEXTURED CLAY using an Oikos Spatola (art.113) with a homogeneous thickness of about 2 mm and work with Oikos Tampone Millerighe (art. 133) to create irregular scratches. Immediately dab gently with a Guanto in Spugna (art. 115).

It is advisable to use a matching primer.

Spatolato Effect: apply a coat of ARGILLA MATERICA with an even thickness of about 2 mm and immediately create spatula marks using the tip of the Oikos Spatola (art. 112-113-114). Before the product dries, dab with a Guanto in Spugna (art. 115).

Naturale Effect: Start with a thin first coat of ARGILLA MATERICA using a stainless steel Oikos Spatola (art. 113) to create a base for further processing. Before the product completely dries, apply a second coat of ARGILLA MATERICA irregularly, with a generous

thickness in some areas while leaving others empty. Using the spatula, you can create veins and buildups based on the desired thickness and texture. Additional material can be overlapped at any time, even after drying.

Warning: ARGILLA MATERICA is a natural product that is highly sensitive to water, which can cause a change in color.

Finishes

To achieve greater water repellency and protection, it is advisable to apply BETONCRYLL IDROREPELLENTE by OIKOS after approximately 7 days.

Safety Information

The product is free of heavy metals such as chromium or lead. It does not contain toxic, aromatic, chlorinated solvents. No hazardous curing occurs. The product is classified as hazardous in accordance with the provisions of Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adaptations. For more

information, please refer to the Safety Data Sheet. No special precautions are required for storage and handling, containers, residues and any spills, collected using inert absorbent materials such as: sand, soil, etc., must be disposed of in accordance with the national or regional provisions in force. Transportation must be carried out in compliance with international agreements.

Specifications

Apply a colourful, breathable decorative coating for interiors based on lime putty and clay such as ARGILLA MATERICA by OIKOS. The preparation of the wall and the methods of application must be carried out as indicated by the manufacturer to obtain the effect All this must be carried out in compliance with the implementing rules, at the cost of per m² including material and installation, excluding scaffolding.

Notes

Oikos spa guarantees that the information contained in this technical data sheet is provided to the best of its technical and scientific knowledge. Despite the above, Oikos assumes no responsibility for the results obtained through the use of its product as the methods of application are beyond its control and/or verification. Therefore, we recommend that you check the suitability of each individual product for the specific case.